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(54) Title: SEQUENCES CHARACTERISTIC OF HUMAN GENE TRANSCRIPTION PRODUCT

(57) Abstract

Partial and complete human cDNA and genomic sequences corresponding to particular expressed sequence tags (ESTs). The ESTs are cDNA sequences that are generally between 150 and 500 base pairs in length, are derived from human brain cDNA libraries, correspond to genes transcribed in human brain, and have base sequences identified herein as SEQ ID NOS: 1-2421.

SEQUENCES CHARACTERISTIC OF HUMAN GENE TRANSCRIPTION PRODUCT

5

Technical Field

The present invention relates to newly identified polynucleotide sequences corresponding to transcription products of human genes, and to complete gene sequences

10   associated therewith.

Background

This invention relates to human genes. Identification

15   and sequencing of human genes is a major goal of modern scientific research. The sequence of human genes is more than just a scientific curiosity. For example, by identifying genes and determining their sequences, scientists have been able to make large quantities of valuable human

20   "gene products." These include human insulin, interferon, Factor VIII, tumor necrosis factor, human growth hormone, tissue plasminogen activator, and numerous other compounds. Additionally, knowledge of gene sequences can provide the k y to treatment or cure of genetic diseases (such as muscular

25   dystrophy and cystic fibrosis). The present invention represents a quantum leap forward in mankind's knowledge of human gene sequences.

There are several basic concepts of molecular biology which figure prominently in the invention. A brief

30   explanation of those concepts follows. Additional background information and definitions for scientific terms can be found

-2-

in the literature. See, for example, "Glossary of Genetics, Classical and Molecular" by R. Rieger, A. Michaelis, and M.M. Green (Fifth Edition, Springer-Verlag, New York (1991)). The contents of this and other publications cited in the specification are incorporated by reference herein.

At an initial level, the present invention is based on identification and characterization of gene segments. Genes are the basic units of inheritance. Each gene is a string of connected bases called nucleotides. Most genes are formed of deoxyribonucleic acid, DNA. (Some viruses contain genes of ribonucleic acid, RNA.) The genetic information resides in the particular sequence in which the bases are arranged. A short sequence of nucleotides is often called a polynucleotide or an oligonucleotide.

Like genes, polypeptides are built from long strings of individual units. These units are amino acids. The nucleotide sequence of a gene tells the cell the sequence in which to arrange the amino acids to make the polypeptide encoded by that gene. In general, chains of up to about 200 amino acids are called polypeptides, while proteins are larger molecules made up of polypeptide subunits; both types of molecules are referred to generally herein as polypeptides. A triplet of nucleotides (codon) in DNA codes for each amino acid or signals the beginning or end of the message (anticodon). The term codon is also used for the corresponding (and complementary) sequences of three nucleotides in the mRNA into which the original DNA sequence is transcribed.

Generally, enzymes in the cell transcribe the permanent DNA of the gene into a temporary RNA copy, called messenger RNA or mRNA. The mRNA, in turn, can be translated into a polypeptide by the cell. This entire process is called gene expression, and the polypeptide is the gene product encoded by the gene.

Scientists have previously discovered how to reverse the transcription process and copy mRNA back into DNA using an

-3-

enzyme called reverse transcriptase. The resulting is called complementary DNA, or cDNA. This is schematically shown in the single Figure. When substantially all of the mRNA from one cell or tissue is converted to cDNA at once and cloned
5   into multiple copies of a recombinant vector to allow replication and manipulation in the laboratory, the result is called a cDNA library.

The various types of genes include those which code for polypeptides, those which are transcribed into RNA but are
10   not translated into polypeptides, and those whose functional significance does not demand that they be transcribed at all. Most genes are found on large molecules of DNA located in chromosomes. Double stranded cDNA carries all the information of a gene. Each base of the first strand is
15   joined to a complementary base (hybridized) in the second strand. The linear DNA molecules in chromosomes have thousands of genes distributed along their length. Chromosomes include both coding regions (coding for polypeptides) and noncoding regions; the coding regions
20   represent only about three percent of the total chromosome sequence.

An individual gene has regulatory regions that include a promoter which directs expression of the gene, a coding region which can code for a polypeptide, and a termination
25   signal. The regulatory DNA sequence is usually a noncoding region that determines if, where, when, and at what level a particular gene is expressed.

The coding regions of many genes are discontinuous, with coding sequences (exons) alternating with noncoding regions
30   (introns). The final mRNA copy of the gene does not include these introns (which can be much longer than the coding region itself), although it does contain certain untranslated regions that usually do not code for the polynucleotide gene product. Untranslated sequences at the beginning and end of
35   the mRNA are known as 5'- and 3'-untranslated regions,

-4-

respectively. This nomenclature reflects the orientation of the nucleotide constituents of the mRNA.

A cDNA is a DNA copy of a messenger RNA, which contains all of the exons of a gene. The cDNA can be thought of as having three parts: an untranslated 5' leader, an uninterrupted polypeptide-coding sequence, and a 3' untranslated region. The untranslated leader and trailing sequences are important for initiation of translation, mRNA stability, and other functions. The untranslated leader and trailing sequences are called 5'- and 3'-untranslated sequences, respectively. The 3' untranslated sequence is usually longer than the 5' untranslated leader, and can be longer than the polypeptide-coding sequence. The untranslated regions typically have many, randomly-distributed stop codons, and do not display the nonrandom base arrangements found in coding sequences. The 5'-untranslated sequence is relatively short, generally between 20 and 200 bases. The 3'-untranslated sequence is often many times longer, up to several thousand bases.

The translated or coding sequence begins with a translational start codon (AUG or GUG) and ends with a translational stop codon (UAA, UGA, or UAG). Generally, translation begins at the first "start" codon on the mRNA and proceeds to the first "stop" codon. Coding sequences can be distinguished by their nonrandom distribution of bases; numerous computer algorithms have been developed to distinguish coding from noncoding regions in this way.

Human DNA differs from person to person. No two persons (except perhaps identical twins) have identical DNA. While the differences, called allelic variations or polymorphisms, are slight on a molecular level, they account for most of the physical and other observable differences between individuals. It has been estimated that approximately 14 million sequence polymorphism differences exist between individuals.

-5-

The ability of one strand of DNA to attach or hybridize to a complementary strand has already been exploited for several purposes. For example, small pieces of DNA (15 to 25 base pairs long) can be made which will hybridize to longer strands of DNA which have a complementary sequence. These short "primers" can be selected such that they hybridize to a specific, unique location on the longer strand. Once the primers have hybridized to their target on the DNA, the polymerase chain reaction (PCR) can be employed to generate millions of copies of (or amplify) the particular segment of DNA between the locations to which two primers are bound. Briefly, this technique allows amplification of a DNA region situated between two convergent primers, using oligonucleotide primers that hybridize to opposite strands. Primer extension proceeds inward across the region between the two primers, and the product of DNA synthesis of one primer serves as a template for the other primer. Repeated cycles of DNA denaturation, annealing of primers, and extension result in an exponential increase in the number of copies of the region bounded by the primers.

Similarly, a labeled segment of single-stranded DNA can be hybridized to a longer DNA sequence, such as a chromosome, to mark a specific location on the longer sequence. Segments of DNA 50 bases long or longer that hybridize to a unique DNA location in the human genome are extremely unlikely to hybridize elsewhere in the human genome.

The Human Genome Project is an effort to sequence all human DNA (the human genome). The human genome is estimated to comprise 50,000 - 100,000 genes, up to 30,000 of which might be expressed in the brain (Sutcliffe, **Ann. Rev. Neurosci.** 11:157 (1988)). Once dedicated human chromosome sequencing begins in three to five years, it was expected that 12-15 years will be required to complete the sequence of the genome (Report of the Ad Hoc Program Advisory Committee on Complex Genomes, Reston, Va., Feb. 1988, D. Baltimore Ed. (NIH, Bethesda, Md, 1988)). At that rate, the majority of

-6-

human genes would remain unknown for at least the next decade. The present invention can greatly accelerate the pace at which human genes can be identified and mapped. Most gene researchers, in conjunction with publication of their results in this field, submit sequence data to the GenBank database. Prior to the present invention, GenBank listed the sequences of only a few thousand human genes and less than two hundred human brain mRNAs (GenBank Release 66.0, December, 1990).

The role of sequencing complementary DNA (cDNA), reverse transcribed from mRNA, as a part of the human genome project has been vigorously debated since the idea of determining the complete nucleotide sequence of humans first surfaced. The coding sequence of all human genes represents most of the information content of the genome, but only 3-5% of the total DNA. In contrast, cDNA (which is only made from the transcription product of active genes) is one-half to three-fourths (the remainder being 5'- and 3'-untranslated sequence) meaningful genetic information. Thus, some have argued that cDNA sequencing should take precedence over genomic sequencing (Brenner, **CIBA Found. Symp. 149**:6 (1990)). However, until now, such arguments have not been heeded.

Genomic sequencing proponents have argued the difficulty of finding every mRNA expressed in all tissues, cell types, and developmental states, and that much valuable information from intronic and intergenic regions, including control and regulatory sequences, will be missed by cDNA sequencing. (Report of the Committee on Mapping and Sequencing the Human Genome, National Research Council (National Academy Press, Washington, D.C. 1988)). Further, sequencing of transcribed regions of the genome using cDNA libraries has heretofore been considered impractical or unsatisfactory. Libraries of cDNA were believed to be dominated by repetitive elements, mitochondrial genes, ribosomal RNA genes, and other nuclear genes comprising common or housekeeping sequences. It was believed that cDNA libraries would provide few sequences

-7-

corresponding to structural and regulatory polypeptides or peptides. See, for example, Putney, et al., **Nature 302:718**-721 (1983). Putney, et al. sequenced over 150 clones from a rabbit muscle cDNA library and identified clones for 13 of the 19 known muscle polypeptides, including one new isotype but no unknown coding sequences.

Another perceived drawback of cDNA sequencing was that some mRNAs are abundant, and some are rare. The cellular quantities of mRNA from various genes can vary by several orders of magnitude. This led critics to believe that most information obtained from cDNA sequencing would be repetitious and useless.

The present invention demonstrates that, despite such skepticism, cDNA sequencing now provides a rapid method for obtaining enormous amounts of valuable genetic information and DNA products of great utility for the biotechnology and pharmaceutical industries. Not only can many distinct cDNAs be isolated and sequenced, even partial cDNAs can be used, with conventional, well-understood methods, to isolate entire genes, and to determine the chromosomal locations and biological functions of these genes. As is demonstrated here, fragments of only a few hundred bases are sufficient, in many cases, to identify the probable function of a new human gene if it is similar in structure to a gene from another animal, or from plants or bacteria. Similarly, even fragments of untranslated regions of a cDNA can be used to: i) isolate the coding sequence of the cDNA; ii) isolate the complete gene; iii) determine the position of the gene on a human chromosome, and hence the potential of the gene to cause a human genetic disease; and iv) determine the function of the gene by means of experiments in which the function of the native gene is disrupted by the addition of a short DNA fragment to the cell, e.g., using triple helix or antisense probes.

Because coding regions comprise such a small portion of the human genome, identification and mapping of transcribed

-8-

regions and coding regions of chromosomes is of significant
interest. There is a corresponding need for reagents for
identifying and marking coding regions and transcribed
regions of chromosomes. Furthermore, such human sequences are
5   valuable for chromosome mapping, human identification,
identification of tissue type and origin, forensic
identification, and locating disease-associated genes (i.e.,
genes that are associated with an inherited human disease,
whether through mutation, deletion, or faulty gene
10   expression) on the chromosome.

SUMMARY OF THE INVENTION

Contrary to the expectations of the scientific
community, cDNA screening and sequencing techniques have now
15   been used to discover a large number of heretofore unknown
human genes. Disclosed herein are over 2,400 new human
polynucleotide sequences. These sequences could represent up
to 5% of all human genes. The novelty of these sequences has
been established through comparison to both nucleotide
20   sequence databases and amino acid sequence databases.
Surprisingly, over 80% of the sequences generated were
unrelated to any sequences previously described in the
literature.

The sequences of the present invention were ascertained
25   using a fast approach to cDNA characterization. This
approach could facilitate the tagging of most expressed human
genes within a few years at a fraction of the cost of
complete genomic sequencing, provide new genetic markers,
provide new DNA-based therapeutics and diagnostics, and
30   provide other valuable nucleotide reagents.

The sequences disclosed herein, styled Expressed
Sequence Tags ("ESTs"), are markers for human genes actually
transcribed *in vivo*. Techniques are disclosed for using
these ESTs to obtain the full coding region of the
35   corresponding gene. The use of ESTs, complete coding
sequences, or fragments thereof for marking chromosomes, for

mapping locations of expressed genes on chromosomes, for individual or forensic identification, for mapping locations of disease-associated genes, for identification of tissue type, and for preparation of antisense sequences, probes, and

5   constructs is discussed in detail below. Unlike the random genomic DNA sequence tagged sites (STSs) (Olson et al., **Science** 245:1434 (1989)), ESTs point directly to expressed genes.

   Various aspects of the present invention thus include

10 the individual ESTs, corresponding partial and complete cDNA, genomic DNA, mRNA, antisense strands, triple helix probes, PCR primers, coding regions, and constructs. Also, where one skilled in the art is enabled by this specification to prepare expression vectors and polypeptide expression

15 products, they are also within the scope of the present invention, along with antibodies, especially monoclonal antibodies, to such expression products.

BRIEF DESCRIPTION OF THE DRAWING

20 The single drawing Figure schematically illustrates the progression from chromosome to gene to mRNA to cDNA.

DETAILED DESCRIPTION OF THE INVENTION

25 The detailed description that follows provides not only the actual sequence of each new EST, but also explains how the ESTs were obtained, how to obtain the corresponding complete cDNA sequence and the corresponding genomic DNA sequence, how to make DNA constructs from the ESTs and

30 corresponding sequences, how to use those sequences as reagents in molecular biology and other fields, how to produce gene products from the ESTs and corresponding sequences and antibodies to those gene products, and the functional categories of many ESTs and corresponding genes.

35 Furthermore, numerous actual working examples and predictive

-10-

examples are provided to demonstrate and exemplify numerous aspects of the invention.

I. ESTs from cDNA Libraries

The sequences of the present invention were isolated from commercially available and custom made cDNA libraries using a rapid screening and sequencing technique. In general, the method comprises applying conventional automated DNA sequencing technology to screening clones, advantageously randomly selected clones, from a cDNA library. Preferably, the library is initially "enriched" through removal of ribosomal sequences and other common sequences prior to clone selection. According to the present method, ESTs are generated from partial DNA sequencing of the selected clones. The ESTs of the present invention were generated using low redundancy of sequencing, typically a single sequencing reaction. While single sequencing reactions may have an accuracy as low as 97%, this nevertheless provides sufficient fidelity for identification of the sequence and design of PCR primers.

Most human genes can be identified by EST sequencing from libraries of cDNA copies of messenger RNAs. However, some genes are expressed only at specific times during embryonic development, or only in small amounts in a few specific cell types. Other genes have mRNAs that are degraded very quickly by the cell in which they are expressed. If any of these are the case, transcripts of the gene will not be represented in cDNA libraries so the gene will not be identifiable by EST sequencing. A new method called "exon amplification", however, can be used to isolate and identify transcripts of such genes.

Exon amplification works by artificially expressing part or all of a gene that is contained in a cloned fragment of genomic DNA such as a cosmid or yeast artificial chromosome (YAC). The gene is cloned into a special vector, designed at MIT, that uses control elements from virus genes to express

-11-

the protein-coding exons of the human gene of interest. Exon trapping shows considerable promise as a general technique for identifying those genes in the human genome that cannot be found by cDNA cloning and EST sequencing. Exon amplification will also be useful for identifying the genes in regions of genomic DNA to which disease genes have been mapped. The exon amplification method can be used directly with the cosmid and YAC clones frown human chromosomes that are being obtained by both NIH and DOE supported human genome centers.   ESTs comprise DNA sequences corresponding to a portion of nuclear encoded messenger RNA. An EST is of sufficient length to permit: (1) amplification of the specific sequence from a cDNA library, e.g., by polymerase chain reaction (PCR); (2) use of a synthetic polynucleotide corresponding to a partial or complete sequence of the EST as a hybridization probe of a cDNA library, generally having 30 - 50 base pairs; or (3) unique designation of the pure cDNA clone from which the EST was derived (the EST clone) for use as a hybridization probe of a cDNA library. Preferably, EST-derived primer pairs and sequences amplify or detectably hybridize to a sequence from a genomic library.

It has been found that sufficient information is contained in the 150-400 base ESTs from one sequencing run to effect preliminary identification and exact chromosome mapping. Accordingly, the ESTs disclosed herein are generally at least 150 base pairs in length. The length of an EST is determined by the quality of sequencing data and the length of the cloned cDNA. Raw data from the automated sequencers is edited to remove low quality sequence at the end of the sequencing run. High quality sequences (usually a result of sequencing templates without excessive salt contamination) generally give about 400 bp of reliable sequence data; other sequences give fewer bases of reliable data. A 150 bp EST is long enough to be translated into a 50 amino acid peptide sequence. This length is sufficient to observe similarities when they exist in a database search. Furthermore, 150 bp is

-12-

long enough to design PCR primers from each end of the
sequence to amplify the complete EST. Sequences shorter than
150 bp are difficult to purify and use following PCR
amplification. Furthermore, a 150 bp polynucleotide is

5   likely to give a very strong signal with low background in a
screen of a genomic library.

Finally, it is highly unlikely that a sequence of the
same 150 bp exists in any genes in the genome besides the one
tagged by the EST. Some closely related gene family members

10   have very similar nucleotide sequences, but no examples of
pairs of human genes with long segments of identical sequence
have been reported to date. For instance, there are three
known β-tubulin genes in humans. Several ESTs were found
that matched one or another of these tubulin genes, but

15   several new members of this gene family were also found and
could be clearly distinguished from the three known members.
ESTs that match perfectly to several different genes can be
detected by hybridizing to chromosomes: if many chromosomal
loci are observed, the sequence (or a close variant) is

20   present in more than one gene. This problem can be
circumvented by using the 3'-untranslated part of the cDNA
alone as a probe for the chromosomal location or for the
full-length cDNA or gene. The 3'-untranslated region is more
likely to be unique within gene families, since there is no

25   evolutionary pressure to conserve a coding function of this
region of the mRNA.

As demonstrated in the Examples that follow, ESTs can be
used to map the expressed sequence to a particular
chromosome. In addition, ESTs can be expanded to provide the

30   full coding regions, as detailed below. In this manner,
previously unknown genes can be identified.

While a variety of cDNA libraries can be used to obtain
ESTs, human brain cDNA libraries are exemplified and
represent a preferred embodiment. Suitable cDNA libraries

35   can be freshly prepared or obtained commercially, e.g., as
shown in Examples 1, 2, and 11. The cDNA libraries from the

-13-

desired tissue are preferably preprocessed by conventional techniques to reduce repeated sequencing of high and intermediate abundance clones and to maximize the chances of finding rare messages from specific cell populations. Preferably, preprocessing includes the use of defined composition prescreening probes, e.g., cDNA corresponding to mitochondria, abundant sequences, ribosomes, actins, myelin basic polypeptides, or any other known high abundance peptide; these prescreening probes used for preprocessing are generally derived from known ESTs. Other useful preprocessing techniques include subtraction, which preferentially reduces the population of certain sequences in the library (e.g., see A. Swaroop et al., **Nucl. Acids Res.** 19, 1954 (1991)), and normalization, which results in all sequences being represented in approximately equal proportions in the library (Patanjali et al, **Proc. Natl. Acad. Sci. USA 88**:1943 (1991)).

The cDNA libraries used in the present method will ideally use directional cloning methods so that either the 5' end of the cDNA (likely to contain coding sequence) or the 3' end (likely to be a non-coding sequence) can be selectively obtained."

Libraries of cDNA can also be generated from recombinant expression of genomic DNA. After they are amplified, ESTs can be obtained and sequenced, e.g., as illustrated in Example 11.

The sequences of the present invention include the specific sequences set forth in the Sequence Listing and designated SEQ ID NO: 1 - SEQ ID NO: 2412. In one aspect of this embodiment, the invention relates to those sequences of SEQ ID NOS: 1 - 2412 that comprise the cDNA coding sequences for polypeptides having less than 95% identity with known amino acid sequences (see Table 2) and more preferably less than 90% or 85% identity. In a second aspect, the invention relates to those sequences of SEQ ID NOS: 1 - 2412 that encode polypeptides having no similarity to known amino acid

-14-

sequences (see Examples that follow). Precisely because they do not contain coding regions and are therefore more unique in their sequence structures, those sequences which meet neither of the preceding criteria can be most useful and are generally preferred for mapping.

Consistent with the NIH mission and its responsibilities to disseminate knowledge and share the tangible fruits of its research, the present inventors have taken a number of steps to facilitate sequence data and clone availability. All EST sequences have been submitted to GenBank (representing an addition equivalent to 7% of the human nucleotides in Release 69 of GenBank, September 1991). The corresponding cDNA clones have been submitted to the American Type Culture Collection and information on clones and sequences has been submitted to the Genome Data Base (Pearson, P. **Nucl. Acids Res. 19 (Suppl.):** 2237-9 (1991)).

II. Complete Coding Sequences from ESTs

The ESTs of the present invention generally represent relatively small coding regions or untranslated regions of human genes. Although most of these sequences do not code for a complete gene product, the ESTs of the present invention are highly specific markers for the corresponding complete coding regions. The ESTs are of sufficient length that they will hybridize, under stringent conditions, only with DNA for that gene to which they correspond. Suitably stringent conditions comprise conditions, for example, where at least 95%, preferably at least 97% or 98% identity (base pairing), is required for hybridization. This property permits use of the EST to isolate the entire coding region and even the entire sequence. Therefore, only routine laboratory work is necessary to parlay the unique EST sequence into the corresponding unique complete gene sequence.

Thus, each of the ESTs of the present invention "corresponds" to a particular unique human gene. Knowledge

of the EST sequence permits routine isolation and sequencing of the complete coding sequence of the corresponding gene. The complete coding sequence is present in a full-length cDNA clone as well as in the gene carried on genomic clones. Therefore, each EST "corresponds" to a cDNA (from which the EST was derived), a complete genomic gene sequence, a polypeptide coding region (which can be obtained either from the cDNA or genomic DNA), and a polypeptide or amino acid sequence encoded by that region.

The first step in determining where an EST is located in the cDNA is to analyze the EST for the presence of coding sequence, e.g., as described in Example 14. The CRM program predicts the extent and orientation of the coding region of a sequence. Based on this information, one can infer the presence of start or stop codons within a sequence and whether the sequence is completely coding or completely non-coding. If start or stop codons are present, then the EST can cover both part of the 5'-untranslated or 3'-untranslated part of the mRNA (respectively) as well as part of the coding sequence. If no coding sequence is present, it is likely that the EST is derived from the 3'-untranslated sequence due to its longer length and the fact that most cDNA library construction methods are biased toward the 3' end of the mRNA.

One general procedure for obtaining complete sequences from ESTs is as follows:

1. Purify selected human DNA from an EST clone (the cDNA clone that was sequenced to give the EST), e.g., by endonuclease digestion using ECOR1, gel electrophoresis, and isolation of the aforementioned clone by removal from low-melting agarose gel.

2. Radiolabel the isolated insert DNA, e.g., with ^{32}P labels, preferably by nick translation or random primer labeling.

3. Use the labeled EST insert as a probe to screen a lambda phage cDNA library or a plasmid cDNA library.

-16-

4.   Identify colonies containing clones related to the probe cDNA and purify them by known purification methods.

5.   Nucleotide sequence the ends of the newly purified clones to identify full length sequences.

6.   Perform complete sequencing of full length clones by Exonuclease III digestion or primer walking. Northern blots of the mRNA from various tissues using at least part of the EST clone as a probe can optionally be performed to check the size of the mRNA against that of the purported full length cDNA.

An EST is a specific tag for a messenger RNA molecule. The complete sequence of that messenger RNA, in the form of cDNA, can be determined using the EST as a probe to identify a cDNA clone corresponding to a full-length transcript, followed by sequencing of that clone. The EST or the full-length cDNA clone can also be used as a probe to identify a genomic clone or clones that contain the complete gene including regulatory and promoter regions, exons, and introns.

ESTs are used as probes to identify the cDNA clones from which an EST was derived. ESTs, or portions thereof, can be nick-translated or end-labelled with P^{32} using polynucleotide kinase using labelling methods known to those with skill in the art (**Basic Methods in Molecular Biology**, L.G. Davis, M.D. Dibner, and J.F. Battey, ed., Elsevier Press, NY, 1986). The lambda library can be directly screened with the labelled ESTs of interest or the library can be converted en masse to pBluescript (Stratagene, La Jolla, California) to facilitate bacterial colony screening. Both methods are well known in the art. Briefly, filters with bacterial colonies containing the library in pBluescript or bacterial lawns containing lambda plaques are denatured and the DNA is fixed to the filters. The filters are hybridized with the labelled probe using hybridization conditions described by Davis et al. The ESTs, cloned into lambda or pBluescript, can be used as positive controls to assess background binding and to adjust

-17-

the hybridization and washing stringencies necessary for accurate clone identification. The resulting autoradiograms are compared to duplicate plates of colonies or plaques; each exposed spot corresponds to a positive colony or plaque. The colonies or plaques are selected, expanded and the DNA is isolated from the colonies for further analysis and sequencing.

The ESTs can additionally be used to screen Northern blots of mRNA obtained from various tissues or cell cultures, including the tissue of origin of the EST clone. Northern analysis will most often produce one to several positive bands. The bands can be selected for further study based on the predicted size of the mRNA.

Positive cDNA clones in phage lambda are analyzed to determine the amount of additional sequence they contain using PCR with one primer from the EST and the other primer from the vector. Clones with a larger vector-insert PCR product than the original EST clone are analyzed by restriction digestion and DNA sequencing to determine whether they contain an insert of the same size or similar as the mRNA size on a Northern blot.

Once one or more overlapping cDNA clones are identified, the complete sequence of the clones can be determined. The preferred method is to use exonuclease III digestion (McCombie, W.R, Kirkness, E., Fleming, J.T., Kerlavage, A.R., Iovannisci, D.M., and Martin-Gallardo, R., *Methods:* 3: 33-40, 1991). A series of deletion clones is generated, each of which is sequenced. The resulting overlapping sequences are assembled into a single contiguous sequence of high redundancy (usually three to five overlapping sequences at each nucleotide position), resulting in a highly accurate final sequence.

A similar screening and clone selection approach can be applied to obtaining cosmid or lambda clones from a genomic DNA library that contains the complete gene from which the EST was derived (Kirkness, E.F., Kusiak, J.W., Menninger, J.,

-18-

Gocayne, J.D., Ward, D.C., and Venter, J.C. *Genomics* 10: 985-
995 (1991). Although the process is much more laborious,
these genomic clones can be sequenced in their entirety also.
A shotgun approach is preferred to sequencing clones with
5   inserts longer than 10 kb (genomic cosmid and lambda clones).
In shotgun sequencing, the clone is randomly broken into many
small pieces, each of which is partially sequenced. The
sequence fragments are then aligned to produce the final
contiguous sequence with high redundancy. An intermediate
10   approach is to sequence just the promoter region and the
intron-exon boundaries and to estimate the size of the
introns by restriction endonuclease digestion (ibid.).

Using the sequence information provided herein, the
polynucleotides of the present invention can be derived from
15   natural sources or synthesized using known methods. The
sequences falling within the scope of the present invention
are not limited to the specific sequences described, but
include human allelic and species variations thereof and
portions thereof of at least 15-18 bases. (Sequences of at
20   least 15-18 bases can be used, for example, as PCR primers or
as DNA probes.) In addition, the invention includes the
entire coding sequence associated with the specific
polynucleotide sequence of bases described in the Sequence
Listing, as well as portions of the entire coding sequence of
25   at least 15-18 bases and allelic and species variations
thereof. Furthermore, to accommodate codon variability, the
invention includes sequences coding for the same amino acid
sequences as do the specific sequences disclosed herein.
Finally, although the error rate in the automated sequencing
30   used in the present invention is small, there remains some
chance of error. Therefore, claims to particular sequences
should not be so narrowly construed as to require inclusion
of erroneously identified bases or to exclude corrections.

Any specific sequence disclosed herein can be readily
35   screened for errors by resequencing each EST in both
directions (i.e., sequence both strands of cDNA).

-19-

The sequences, constructs, vectors, clones, and other materials comprising the present invention can advantageously be in enriched or isolated form. As used herein, "enriched" means that the concentration of the material is at least about 2, 5, 10, 100, or 1000 times its natural concentration (for example), advantageously 0.01%, by weight, preferably at least about 0.1% by weight. Enriched preparations of about 0.5%, 1%, 5%, 10%, and 20% by weight are also contemplated. Further, removal of clones corresponding to ribosomal RNA and "housekeeping" genes and clones without human cDNA inserts results in a library that is "enriched" in the desired clones.

The term "isolated" requires that the material be removed from its original environment (e.g., the natural environment if it is naturally occurring). For example, a naturally-occurring polynucleotide present in a living animal is not isolated, but the same polynucleotide, separated from some or all of the coexisting materials in the natural system, is isolated.

It is also advantageous that the sequences be in purified form. The term "purified" does not require absolute purity; rather, it is intended as a relative definition. Individual EST clones isolated from a cDNA library have been conventionally purified to electrophoretic homogeneity. The sequences obtained from these clones could not be obtained directly either from the library or from total human DNA. The cDNA clones are not naturally occurring as such, but rather are obtained via manipulation of a partially purified naturally occurring substance (messenger RNA). The conversion of mRNA into a cDNA library involves the creation of a synthetic substance (cDNA) and pure individual cDNA clones can be isolated from the synthetic library by clonal selection. Thus, creating a cDNA library from messenger RNA and subsequently isolating individual clones from that library results in an approximately 10^6-fold purification of the native message. Purification of starting material or

natural material to at least one order of magnitude, preferably two or three orders, and more preferably four or five orders of magnitude is expressly contemplated.

In a cDNA library there are many species of mRNA represented. Each cDNA clone can be interesting in its own right, but must be isolated from the library before further experimentation can be completed. In order to sequence any specific cDNA, it must be removed and separated (i.e. isolated and purified) from all the other sequences. This can be accomplished by many techniques known to those of skill in the art. These procedures normally involve identification of a bacterial colony containing the cDNA of interest and further amplification of that bacteria. Once a cDNA is separated from the mixed clone library, it can be used as a template for further procedures such as nucleotide sequencing.

Although claims to large numbers of ESTs and corresponding sequences are presented herein, the invention is not limited to these particular groupings of sequences. Thus, individual sequences are considered as applicants' discoveries or inventions, as are subgroupings of sequences. All of the functional subgroupings set forth in the tables define groupings for which separate claims are contemplated as being within the scope of this invention. Moreover, in addition to claims to individual clones, it is intended that the present disclosure also support claims to numerical subgroupings. Thus, subgroupings of 50 ESTs (and corresponding sequences) are contemplated (e.g., SEQ ID NOS 1-50, 51-100, 101-150, etc.) as being within the scope of this invention, as are subgroupings of 5, 10, 25, 100, 200, and 500 ESTs and corresponding sequences.

III. **DNA Constructs**

The present invention also includes recombinant constructs comprising one or more of the sequences as broadly described above. The constructs comprise a vector, such as

-21-

a plasmid or viral vector, into which a sequence of the invention has been inserted, in a sense or antisense orientation. In a preferred aspect of this embodiment, the construct further comprises regulatory sequences, including for example, a promoter, operably linked to the sequence. Large numbers of suitable vectors and promoters are known to those of skill in the art, and are commercially available. The following vectors are provided by way of example.
Bacterial: pBs, phagescript, ϕX174, pBluescript SK, pBs KS, pNH8a, pNH16a, pNH18a, pNH46a (Stratagene); pTrc99A, pKK223-3, pKK233-3, pDR540, pRIT5 (Pharmacia).
Eukaryotic: pWLneo, pSV2cat, pOG44, pXT1, pSG (Stratagene); pSVK3, pBPV, pMSG, pSVL (Pharmacia).

Promoter regions can be selected from any desired gene using CAT (chloramphenicol transferase) vectors or other vectors with selectable markers. Two appropriate vectors are pKK232-8 and pCM7. Particular named bacterial promoters include lacI, lacZ, T3, T7, gpt, lambda P_R, and trc. Eukaryotic promoters include CMV immediate early, HSV thymidine kinase, early and late SV40, LTRs from retrovirus, and mouse metallothionein-I. Selection of the appropriate vector and promoter is well within the level of ordinary skill in the art.

In a further embodiment, the present invention relates to host cells containing the above-described construct. The host cell can be a higher eukaryotic cell, such as a mammalian cell, or a lower eukaryotic cell, such as a yeast cell, or the host cell can be a procaryotic cell, such as a bacterial cell. Introduction of the construct into the host cell can be effected by calcium phosphate transfection, DEAE dextran mediated transfection, or electroporation (Davis, L., Dibner, M., Battey, I., **Basic Methods in Molecular Biology**, (1986)).

The constructs in host cells can be used in a conventional manner to produce the gene product coded by the recombinant sequence. Alternatively, the encoded polypeptide

-22-

can be synthetically produced by conventional peptide synthesizers.

Certain ESTs have already been preliminarily categorized by analogy to related sequences in other organisms (see Table 2). Table 10 of Example 10 categorizes particular ESTs broadly as metabolic, regulatory, and structural sequences where known. Constructs comprising genes or coding sequences corresponding to each of these categories are, therefore, specifically and individually contemplated.

Table 11 more particularly separates 127 new ESTs into 13 categories using a different criteria. These are genes related to cell surface; developmental control; energy metabolism; kinase and phosphatase; oncogenes; other metabolism-related polypeptides; peptidases and peptidase inhibitors; receptors; structural and cytoskeletal; signal transduction; transporters; transcription, translation, and subcellular localization; and transcription factors. Table 11 further identifies the EST by the particular gene product for which it apparently codes. Each of these categories individually comprises a preferred category of EST, and preferred constructs and resulting polypeptide can be prepared from those ESTs or the corresponding complete gene sequence.

IV. **ESTs and Corresponding Sequences as Reagents**

Each of the cDNA sequences identified herein (and the corresponding complete gene sequences) can be used in numerous ways as polynucleotide reagents. The sequences can be used as diagnostic probes for the presence of a specific mRNA in a particular cell type. In addition, these sequences can be used as diagnostic probes suitable for use in genetic linkage analysis (polymorphisms). Further, the sequences can be used as probes for locating gene regions associated with genetic disease, as explained in more detail below.

The EST and complete gene sequences of the present invention are also valuable for chromosome identification.

-23-

Each sequence is specifically targeted to and can hybridize with a particular location on an individual human chromosome. Moreover, there is a current need for identifying particular sites on the chromosome. Few chromosome marking reagents based on actual sequence data (repeat polymorphisms) are presently available for marking chromosomal location. The present invention constitutes a major expansion of available chromosome markers. One hundred ESTS have already been mapped to chromosomes. Using the techniques described in Example 5 or 6, the remaining ESTs and the corresponding complete sequences can similarly be mapped to chromosomes. The mapping of ESTs and cDNAs to chromosomes according to the present invention is an important first step in correlating those sequences with genes associated with disease.

Briefly, sequences can be mapped to chromosomes by preparing PCR primers (preferably 15-25 bp) from the ESTs. Computer analysis of the ESTs is used to rapidly select primers that do not span more than one exon in the genomic DNA, thus complicating the amplification process. These primers are then used for PCR screening of somatic cell hybrids containing individual human chromosomes. Only those hybrids containing the human gene corresponding to the EST will yield an amplified fragment.

PCR mapping of somatic cell hybrids is a rapid procedure for assigning a particular EST to a particular chromosome. Three or more clones can be assigned per day using a single thermal cycler. Using the present invention with the same oligonucleotide primers, sublocalization can be achieved with panels of fragments from specific chromosomes or pools of large genomic clones in an analogous manner. Other mapping strategies that can similarly be used to map an EST to its chromosome include _in situ_ hybridization, prescreening with labeled flow-sorted chromosomes and preselection by hybridization to construct chromosome specific cDNA libraries. Results of mapping ESTs to chromosomal segments are listed in Tables 3 and 4.

-24-

Fluorescence in situ hybridization (FISH) of a cDNA clone to a metaphase chromosomal spread can be used to provide a precise chromosomal location in one step. This technique can be used with cDNA as short as 500 or 600 bases; however, clones larger than 2,000 bp have a higher likelihood of binding to a unique chromosomal location with sufficient signal intensity for simple detection. FISH requires use of the clone from which the EST was derived, and the longer the better. 2,000 bp is good, 4,000 is better, and more than 4,000 is probably not necessary to get good results a reasonable percentage of the time. For a review of this technique, see Verma et al., **Human Chromosomes: a Manual of Basic Techniques.** Pergamon Press, New York (1988).

Reagents for chromosome mapping can be used individually (to mark a single chromosome or a single site on that chromosome) or as panels of reagents (for marking multiple sites and/or multiple chromosomes). Reagents corresponding to noncoding regions of the genes actually are preferred for mapping purposes. Coding sequences are more likely to be conserved within gene families, thus increasing the chance of cross hybridizations during chromosomal mapping (see Tables 8 and 9).

Once a sequence has been mapped to a precise chromosomal location, the physical position of the sequence on the chromosome can be correlated with genetic map data. (Such data are found, for example, in V. McKusick, **Mendelian Inheritance in Man** (available on line through Johns Hopkins University Welch Medical Library).) The relationship between genes and diseases that have been mapped to the same chromosomal region are then identified through linkage analysis (coinheritance of physically adjacent genes).

Next, it is necessary to determine the differences in the cDNA or genomic sequence between affected and unaffected individuals. If a mutation is observed in some or all of the affected individuals but not in any normal individuals, then

-25-

the mutation is likely to be the causative agent of the disease.

With current resolution of physical mapping and genetic mapping techniques, a cDNA precisely localized to a chromosomal region associated with the disease could be one of between 50 and 500 potential causative genes. (This assumes 1 megabase mapping resolution and one gene per 20 kb.)

Comparison of affected and unaffected individuals generally involves first looking for structural alterations in the chromosomes, such as deletions or translocations that are visible from chromosome spreads or detectable using PCR based on that cDNA sequence. Ultimately, complete sequencing of genes from several individuals is required to confirm the presence of a mutation and to distinguish mutations from polymorphisms.

In addition to the foregoing, the sequences of the invention, as broadly described, can be used to control gene expression through triple helix formation or antisense DNA or RNA, both of which methods are based on binding of a polynucleotide sequence to DNA or RNA. Polynucleotides suitable for use in these methods are usually 20 to 40 bases in length and are designed to be complementary to a region of the gene involved in transcription (triple helix - see Lee et al, **Nucl. Acids Res. 6:** 3073 (1979); Cooney et al, **Science 241:** 456 (1988); and Dervan et al, **Science 251:** 1360 (1991)) or to the mRNA itself (antisense - Okano, **J. Neurochem. 56:** 560 (1991); **Oligodeoxynucleotides as Antisense Inhibitors of Gene Expression,** CRC Press, Boca Raton, FL (1988)). Triple helix formation optimally results in a shut-off of RNA transcription from DNA, while antisense RNA hybridization blocks translation of an mRNA molecule into polypeptide. Both techniques have been demonstrated to be efficient in model systems. Information contained in the sequences of the present invention is necessary for the design of an antisense or triple helix oligonucleotide.

The present invention is also useful tool in gene therapy, which requires isolation of the disease-associated gene in question as a prerequisite to the insertion of a normal gene into an organism to correct a genetic defect. The high specificity of the cDNA probes according to this invention have promise of targeting such gene locations in a highly accurate manner.

The sequences of the present invention, as broadly defined, are also useful for identification of individuals from minute biological samples. The United States military, for example, is considering the use of restriction fragment length polymorphism (RFLP) for identification of its personnel. In this technique, an individual's genomic DNA is digested with one or more restriction enzymes, and probed on a Southern blot to yield unique bands for identifying personnel. This method does not suffer from the current limitations of "Dog Tags" which can be lost, switched, or stolen, making positive identification difficult. The sequences of the present invention are useful as additional DNA markers for RFLP.

However, RFLP is a pattern based technique, which does not directly focus on the actual DNA sequence of the individual. The sequences of the present invention can be used to provide an alternative technique that determines the actual base-by-base DNA sequence of selected portions of an individual's genome. These sequences can be used to prepare PCR primers for amplifying and isolating such selected DNA. One can, for example, take an EST of the invention and prepare two PCR primers from the 5' and 3' ends of the EST. These are used to amplify an individual's DNA, corresponding to the EST. The amplified DNA is sequenced.

Panels of corresponding DNA sequences from individuals, made this way, can provide unique individual identifications, as each individual will have a unique set of such DNA sequences, due to allelic differences. The sequences of the present invention can be used to particular advantage to

-27-

obtain such identification sequences from individuals and from tissue, as explained in Examples 12 - 14.

The EST sequences from Examples 1 and 2 and the complete sequences from Example 13 uniquely represent portions of the human genome. Allelic variation occurs to some degree in the coding regions of these sequences, and to a greater degree in the noncoding regions. It is estimated that allelic variation between individual humans occurs with a frequency of about once per each 500 bases. Each of the ESTs or complete coding sequences comprising a part of the present invention can, to some degree, be used as a standard against which DNA from an individual can be compared for identification purposes. Because greater numbers of polymorphisms occur in the noncoding regions, fewer sequences are necessary to differentiate individuals. The noncoding sequences of Table 9 for example, could comfortably provide positive individual identification with a panel of perhaps 100 to 1,000 primers which each yield a noncoding amplified sequence of 100 bp. If predicted coding sequences, such as those from Table 6, are used, a more appropriate number of primers for positive individual identification would be 500-2,000.

If a panel of reagents from ESTs or complete sequences of this invention is used to generate a unique ID database for an individual, those same reagents can later be used to identify tissue from that individual. Positive identification of that individual, living or dead can be made from extremely small tissue samples.

Another use for DNA-based identification techniques is in forensic biology. PCR technology can be used to amplify DNA sequences taken from very small biological samples such as tissues, e.g., hair or skin, or body fluids, e.g., blood, saliva, semen, etc. In one prior art technique, gene sequences are amplified at specific loci known to contain a large number of allelic variations, for example the DQα class II HLA gene (Erlich, H., **PCR Technology**, Freeman and Co.

-28-

(1992)). Once this specific area of the genome is amplified, it is digested with one or more restriction enzymes to yield an identifying set of bands on a Southern blot probed with DNA corresponding to the DQα class II HLA gene.

The sequences of the present invention can be used to provide polynucleotide reagents specifically targeted to additional loci in the human genome, and can enhance the reliability of DNA-based forensic identifications. Those sequences targeted to noncoding regions (see, e.g., Tables 8 and 9) are particularly appropriate. As mentioned above, actual base sequence information can be used for identification as an accurate alternative to patterns formed by restriction enzyme generated fragments. Reagents for obtaining such sequence information are within the scope of the present invention. Such reagents can comprise complete ESTs or corresponding coding regions, or fragments of either of at least 15 bp, preferably at least 18 bp.

There is also a need for reagents capable of identifying the source of a particular tissue. Such need arises, for example, in forensics when presented with tissue of unknown origin. Appropriate reagents can comprise, for example, DNA probes or primers specific to particular tissue prepared from the ESTs or complete sequences of the present invention. Panels of such reagents can identify tissue by species and/or by organ type. In a similar fashion, these reagents can be used to screen tissue culture for contamination.

V. Production of Polypeptide Corresponding to ESTs

As previously explained, each EST corresponds not only to a coding region, but also to a polypeptide. Once the coding sequence is known, or the gene is cloned which encodes the polypeptide, conventional techniques in molecular biology can be used to obtain the polypeptide.

At the simplest level, the amino acid sequence encoded by the polynucleotide sequence can be synthesized using commercially available peptide synthesizers. This is

particularly useful in producing small peptides and fragments of larger polypeptides. (Fragments are useful, for example, in generating antibodies against the native polypeptide.)

Alternatively, the DNA encoding the desired polypeptide can be inserted into a host organism and expressed. The organism can be a bacterium, yeast, cell line, or multicellular plant or animal. The literature is replete with examples of suitable host organisms and expression techniques. For example, naked polynucleotide (DNA or mRNA) can be injected directly into muscle tissue of mammals, where it is expressed. This methodology can be used to deliver the polypeptide to the animal, or to generate an immune response against a foreign polypeptide. Wolff, et al., **Science** **247:1465** (1990); Felgner, et al., **Nature 349:351** (1991). Alternatively, the coding sequence, together with appropriate regulatory regions (i.e., a construct), can be inserted into a vector, which is then used to transfect a cell. The cell (which may or may not be part of a larger organism) then expresses the polypeptide. (See Example 25.)

Antibodies generated against the polypeptide corresponding to a sequence of the present invention can be obtained by direct injection of the naked polypeptide into an animal (as above) or by administering the polypeptide to an animal, preferably a nonhuman. The antibody so obtained will then bind the polypeptide itself. In this manner, even a sequence encoding only a fragment of the polypeptide can be used to generate antibodies binding the whole native polypeptide. Such antibodies can then be used to isolate the polypeptide from tissue expressing that polypeptide. Moreover, a panel of such antibodies, specific to a large number of polypeptides, can be used to identify and differentiate such tissue.

VI. **Examples**

Certain aspects of the present invention are described in greater detail in the non-limiting Examples that follow.

-30-

EXAMPLE 1

cDNA Sequences D termined by Random
Clone Selection: First set

METHODOLOGY:

    With reference to the data presented in Table 1, lambda ZAP libraries were converted en masse to pBluescript plasmids, transfected into E. coli XL1-Blue cells, and plated on X-gal/IPTG/ampicillin plates. A total of 1058 clones were picked at random from three human brain cDNA libraries: fetal brain, two-year-old hippocampus, and two-year-old temporal cortex (Stratagene catalog #936206, 936205, 935, respectively. Stratagene, 11099 N. Torrey Pines Rd., La Jolla, CA 92037). An analysis of these clones is summarized in Table I (see below) In addition, clones selected from the hippocampus library were also analyzed after subtractive hybridization with the fibroblast library. These results are listed in the "Hippocampus Subtracted" column of Table 1. Templates for DNA sequencing were PCR products or plasmids prepared by the alkaline lysis method. About half of the templates prepared by PCR failed to yield an amplified fragment suitable for sequencing. This was primarily due to use of PCR conditions that minimized the need for further purification of the product but also selected against amplification of long inserts (5 μl fresh or frozen overnight culture of E. coli carrying the pBluescript plasmid, 7.5 μM each dNTP, and 0.1 μM each primer for 35 cycles: 94°C, 40 sec; 55°C, 40 sec; 72°C, 90 sec). A further percentage of the PCR-generated templates failed to sequence, largely due to primer-dimer or other amplification artifacts. Qiagen™ columns improved the percentage of plasmid templates, increasing the yields of usable sequence from about 60% with a standard alkaline lysis protocol to over 90%. Overall, 117 PCR-generated templates and 497 plasmid templates resulted in usable sequence. Dideoxy chain termination sequencing reactions were performed with fluorescent dye-labeled M13

-31-

universal or reverse primers. After a cycle sequencing
protocol, carried out in a Perkin-Elmer thermal cycler,
sequencing reactions were run on an Applied Biosystems, Inc.
(Foster City, CA) 373A automated DNA sequencer. (Cycle
5   sequencing was performed in a Perkin Elmer Thermal Cycler for
15 cycles of 95°C, 30 sec; 60°C, 1 sec; 70°C, 60 sec and
15 cycles of 95°C, 30 sec; 70°C, 60 sec with the Applied
Biosystems, Inc. Taq Dye Primer Cycle Sequencing Core Kit
protocol). Some sequencing reactions were performed on an
10   ABI robotic workstation (Cathcart, **Nature 347**: 310 (1990)
hereby incorporated by reference).

RESULTS:

        Singe-run DNA sequence data were obtained from 609
15   randomly chosen cDNA clones. The number of clones sequenced
from each library is summarized in Table 1. Double-stranded
cDNA clones in the pBluescript vector were sequenced by a
cycle sequencing protocol with dye-labeled primers and
Applied Biosystems, Inc. 373A DNA Sequences. The average
20   length of usable sequence was 397 bases with a standard
deviation of 99 bases.

        Subtractive hybridization has been used successfully to
reduce the population of highly represented sequences in a
cDNA library by selectively removing sequences shared by
25   another library.   (Schmid and Girou, **Neurochem.** 48: 307
(1987); Fargnoli et al, **Anal. Biochem.** 187: 364 (1990);
Duguid and Dinauer, **Nucl. Acids. Res.** 18: 2789 (1990);
Schweinfest, et al, **Genet. Anal. Techn. Appl.** 7: 64 (1990);
Travis and Sutcliffe, **Proc. Natl. Acad. Sci. USA 85**: 1696
30   (1988); Kato, **Eur. J. Neurosci.** 2: 704 (1990)). Subtractive
hybridization was therefore tested as a way of enhancing the
number of brain-specific clones in the hippocampus library by
hybridizing the hippocampus library with a WI38 human lung
fibroblast cell line cDNA library and removing the common
35   sequences (Schweinfest et al, **G net. Anal. Techn. Appl.** 7: 64
(1990); Sive and St. John, **Nucl. Acids Res.** 16: 10937

-32-

(1988)).   Clones from this subtraction are listed in the
column "Hippocampus Subtracted" in Table 1.

    The EST sequences from this Example 1 are identified as
SEQ ID NOs 1-315.

TABLE 1.   cDNA Library Composition Determined
By Random Clone Sequencing

	----------cDNA Library----------							
EST Category	Hippocampus		Hippocampus Subtracted		Fetal Brain		Temporal Cortex	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Databases Match--Human								
Mitochondrial Genes	48	12.8	10	8.6	3	7.9	6	7.5
Repeats: Alu, Line-1, etc.	39	10.4	14	12.2	6	15.8	0	0
Ribosomal RNA	10	2.7	7	6.0	0	0	11	13.8
Other Nuclear Genes	32	8.6	7	6.0	4	10.5	0	0
Database Match--Other	32	8.6	7	6.0	5	13.2	4	5.0
No Database Match	160	42.8	44	37.9	20	52.6	6	7.5
poly A Insert	53	14.1	24	20.7	0	0	27	33.7
No Insert	1	0.3	3	2.6	0	0	26	32.5

-34-

EXAMPLE 2

Sequencing of Additional ESTs: Second set

Over 2600 additional cDNA clones have been isolated,
partially sequenced and screened. The clones were isolated
from four human brain cDNA libraries. The new sequences thus
discovered, together with the 315 brain ESTs from Example 1,
correspond to over 2400 new human genes. These data
represent an approximate doubling of the number of human
genes identified by DNA sequencing.

Specifically, four cDNA libraries were used as sources
of clones for sequencing. Human hippocampus and fetal brain
libraries,   plasmid   template   preparation,   sequencing
reactions, and automated sequencing were performed as
described (Adams, M.D., Kelley, J.M., Gocayne, J.D., Dubnick,
M., Polymeropoulos, M.H., Xiao, H., Merril, C.R., Wu, A.,
Olde, B., Moreno, R.F., Kerlavage, A.R., McCombie, W.R., &
Venter, J.C. **Science, 252:** 1651-56 (1991)). A pooled probe
consisting of inserts from 10 different EST clones with
sequences that matched either mitochondrial genes or the 18S
or 28S ribosomal RNAs was used to prescreen a gridded filter
array of the hippocampus library; nonhybridizing clones are
referred to as the "prescreened library". Another fetal
brain library was constructed by and was a gift from Bento
Soares (Columbia University). A directionally-cloned library
was prepared using the method of Rubenstein, et al.
(Rubenstein, J., Elizabeth, A., Brice, A., Ciaranello, R.,
Denney, D., Porteus, M. & Usdin, T. **Nucl. Acids Res. 18:**
4833-4842) using human adult brain mRNA purchased from
Clontech (Palo Alto, CA; Catalogue # 6516-1). Of 482 clones
analyzed by restriction enzyme digestion, 33% contained
inserts at least 1500 base pairs in length. Stratagene
hippocampus and fetal brain library totals include data from
Adams et al **Science 252: 1651.**

Sequences of nuclear-encoded cDNAs that did not include
interspersed repeats (Schmid, C. W. & Jelinek, W. R. **Science**

-35-

216: 1065-1070 (1982); Paulson, K. E., Deka, N., Schmid, C. W., Misra, R., Schlinder, C. W., Rush, M. G., Kadyk, L., & Leinwand, L. **Nature 316**: 359-361 (1985); Fanning, T. G. & Singer, M. F. **Biochem. Biophys. Acta 910**: 203-212 (1987)) were searched against all of GenBank and, in 6-frame translation, against a comprehensive, non-redundant peptide database using the network BLAST (Altschul, S. F., Gish, W., Miller, W., Myers, E.W., & Lipman, D. **J. Mol. Biol. 215**: 403-410 (1990)) server at the National Center for Biotechnology Information. BLAST output was parsed, and an interactive alignment editor was used to select which matches, if any, from each search to record in a relational EST database, which was developed to track sequencing, identification, tissue localization, physical mapping, and the public distribution of the clones, mapping and sequence data. For significant similarities, a putative gene name and Protein Identification Resource (PIR) gene family identification (Barker, W., George, D., Hunt, L., & Garavelli, J. **Nucl. Acids Res. 19 (Suppl)**: 2231-2236 (1991)) for the EST were assigned. ESTs without significant matches using BLAST were searched in translation against PIR using FASTA. Ten additional marginal matches were found. A total of 2300 new EST sequences comprising 765,505 nucleotides from the current data set have been submitted to GenBank and assigned accession numbers M77851-M79278 and M85308-M86179. All ESTs except those multiply representing actin, tubulin, and myelin basic protein clones were submitted. ATCC accession numbers of cDNA clones from which ESTs were derived are 77501-78999 and 81000-81756. The Genome Data Base expressed D-segment numbers for these clones are D0S1E - D0S2422E. The ESTs from this Example are identified herein as SEQ ID NOs 316-2407.

-36-

EXAMPLE 3

EST Characterization: First Set

ESTs including SEQ ID NOs 1-315 were analyzed as follows. Initially, the EST sequences were examined for similarities in the GenBank nucleic acid database (GenBank Release 65.0), Protein Information Resource Release 26.0 (PIR), and ProSite (MacPattern from the EMBL data library, Fuchs R. **Comput. Appl. Biosci. 7**: 105 (1990) Release 5.0 were used). BLAST was used to search Genbank and the PIR (both maintained by the National Center for Biotechnology Information) ESTs without exact GenBank matches were translated in all six reading frames and each translation was compared with the protein sequence database PIR and the ProSite protein motif database. Comparisons with the ProSite motif database were done by means of the program MacPattern from the EMBL Data Library. GenBank and PIR searches were conducted with the "basic local alignment search tool" programs for nucleotide (BLASTN) and peptide (BLASTX) comparisons (Altschul et al, **J. Mol. Biol. 215**: 403 (1990)). PIR searches were run on the National Center for Biotechnology Information BLAST network service. The BLAST programs contain a very rapid database-searching algorithm that searches for local areas of similarity between two sequences and then extends the alignments on the basis of defined match and mismatch criteria. The algorithm does not consider the potential gaps to improve the alignment, thus sacrificing some sensitivity for a 6-80 fold increase in speed over other database-searching programs such as FASTA (Pearson and Lipman, **Proc. Natl. Acad. Sci. USA, 85**: 2444 (1988)).

Sequence similarities identified by the BLAST programs were considered statistically significant with a Poisson P-value than 0.01. The Poisson P-value less than the probability of as high a score occurring by chance given the number of residues in the query sequence and the database.

-37-

After the BLASTN search, 30 unmatched ESTs were compared against GenBank by FASTA to determine if significant matches were missed due to the use of BLASTN for the database search. No additional statistically significant matches were found. Statistical significance does not necessarily mean functional similarity; some of the reported matches may indicate the presence of a conserved domain or motif or simply a common protein structure pattern. Those ESTs identified as fully corresponding to known human genes or proteins are not included in this disclosure. Statistically significant matches are reported in Table 2, together with the length and percent identity or similarity of each alignment.

On the basis of database searches, 609 EST sequences were classified into eight groups as shown in Table 1 (see Example 1 above). Four groups, with 197 or 32% of the sequences, consist of matches to human sequences: repetitive elements, mitochondrial genes, ribosomal RNA genes, and other nuclear genes. Forty-eight (8%) of the sequences matched non-human entries in GenBank or PIR while 230 (38%) had no significant matches. The remaining 134 (22%) sequences contained no insert or consisted entirely of polyA between the EcoRI cloning sites.

Thirty-six ESTs matched previously sequenced human nuclear genes with more than 97% identity. Four of these ESTs are from genes encoding enzymes involved in maintaining metabolic energy, including ADP/ATP translocase, aldolase C, hexokinase, and phosphoglycerate kinase. Human homologs of genes for the bovine mitochondrial ATP synthase $F_0\beta$-subunit and porcine aconitase were also found (Table 2). Brain-specific cDNAs included synaptophysin, glial fibrillary acidic protein (GFAP), and neurofilament light chain. At least six ESTs are from genes encoding proteins involved in signal transduction: 2',3'-cyclic nucleotide 3'-phosphodiesterase (2 ESTs), calmodulin, c-erbᴬ-α-2, $G_s\alpha$, and Na^+/K^+ ATPase α-subunit. Other ESTs were matches to genes for ubiquitous structural proteins -- actins, tubulins, and

-38-

fodrin (non-erythroid spectrin). ESTs also document the presence in the hippocampus cDNA library of the ret proto-oncogene, the ras-related gene rhoB, and one of the chromosome 22 breakpoint cluster region transcripts. Eight ESTs are from genes known to be associated with genetic disorders (Online Mendelian Inheritance in Man). More than half of the human-matched ESTs from Example 1 have been mapped to chromosomes, indicating the bias of GenBank entries toward well-studied genes and proteins.

ESTs without significant GenBank matches were also compared to the ProSite database of recognized protein motifs. Not counting post-translational-modification signatures, fifty-four sequences contained motifs from the database. Some patterns, particularly the "leucine zipper", are found in scores or hundreds of proteins that do not share the functional property implied by the presence of the motif.

Similarities to sequences from other organisms were also detected in the BLAST searches of GenBank and PIR (Table 2). Several ESTs displayed similarity to "housekeeping" genes, including the ribosomal proteins S10 and L30 (rat) and the above glycolytic enzymes. EST00257 (SEQ ID NO:77) shows strong nucleotide sequence similarity to the squid (67%) and Drosophila (70.4%) kinesin heavy chain. Kinesin was first described as a microtubule-associated motor protein involved in organelle transport in the squid giant axon (Vale et al, **Cell** 42: 39 (1985)). Six oncogene-related sequences were also among the cDNA clones sequenced. EST00299 (SEQ ID NO:180) and EST00283 (SEQ ID NO:271) show similarity to several ras-related genes and EST00248 (SEQ ID NO:102) matched the 3' untranslated region of the bovine substrate of botulinum toxin ADP-ribosyltransferase. Similarities with an S. cerevisiae RNA polymerase subunit and Torpedo electromotor neuron-associated protein were also observed. Two ESTs may represent new members of known human gene families: EST00270 matched the three ß-tubulin genes with 88-91% identity and

-39-

EST00271 (SEQ ID NO:248) matched α-actinin with 85% identity at the nucleotide level.

Among the most interesting of the primary sequence relationships was the similarity of ESTs to the Drosophila genes Notch and Enhancer of split. Nucleotide and peptide alignments of EST00256 (SEQ ID NO:188) and EST00259 (SEQ ID NO:227) with the Drosophila genes have been demonstrated. Both genes are part of a signal cascade encoded by the "neurogenic" genes that are involved in the differentiation of neuronal and epidermal cell lineages in the neuroectoderm of the developing Drosophila embryo (Campos-Ortega, **Trends in Neuro. Sci. 11**: 400 (1988)). It has been proposed that the Enhancer of split protein interacts with a membrane protein that is the product of the Notch gene to convert a developmental signal into an altered pattern of gene expression (id. **J. Mol. Biol. 215**: 403 (1990)). EST00256 (SEQ ID NO:188) matches near the 5' end of the Enhancer of split coding sequence, away from the mammalian G protein ß subunit- and yeast cdc4-like elements (Hartley et al, **Cell 55**: 785 (1988); Klambt et al. **EMBO J. 8**: 203 (1989)). Part of the EST00259 (SEQ ID NO:227) match to Notch in the cdc10/SW16 region that is similar to three cell-cycle control genes in yeast and is tightly conserved in the Xenopus Notch homolog, Xotch. In Drosophila, Enhancer of split is absolutely required for formation of epidermal tissue. Notch contains several epidermal growth factor-like repeats and appears to play a general role in cell-cell communication during development (Banerjee and Zipursky, **Neuron 4:177** (1990)).

Seven genes were represented by more than one EST. Comparisons of all the ESTs against one another revealed two overlaps of unknown ESTs: EST00233 (SEQ ID NO:32) and EST00234 (SEQ ID NO:8) match in opposite orientations and EST00235 (SEQ ID NO:204) and EST00236 (SEQ ID NO:148) match in the same orientation beginning at the same nucleotide. Five human genes were represented by more than one EST: ß-

actin (3), λ-actin (2), α-tubulin (2), α-2-macroglobulin (2), and 2'3'-cyclic-nucleotide-3'-phosphodiesterase (2). Those few instances where two or more ESTs represent different portions of a single cDNA can be readily ascertained when the

5   sequence of the full cDNA insert is determined in accordance with Example 13.

Example 4

EST Sequences Characterization: Second Set

10   The ESTs of Example 2, including SEQ ID NOs 316-2407, were screened against known sequences listed in GenBank and other databases, as in Example 3. The results are reported in Table 2. The quality of the match is given as percent identity and length in base pairs for nucleotide matches and amino acid residues for peptide matches. In many cases ESTs

15   match multiple domains on several related proteins; for example, EST00825 matches two transmembrane domains on both GABA and Norepinephrine transporters. Nucleotide databases are: GenBank (GB), and EMBL (E); peptide databases are: GenPept (GPU), Swiss-Prot (SP), and PIR.

20   The great majority (83%) of the partial cDNA sequences reported in Example 2 are unrelated to any sequences previously described in the literature. Based on database matches to known genes from humans as well as from such evolutionarily distant organisms as *E. coli*, yeast, *C.*

25   *elegans*, *Drosophila*, barley, *Arabidopsis*, rice, and green algae, we have preliminarily identified the functional type of a number of the ESTs (Table 2). These include a novel gene similar to Notch/Tan-1 (Adams et al., <u>supra</u>), a new neurotransmitter transporter gene, and a new member of the

30   multi-drug resistance gene family. Several genes involved in development or cell differentiation in *Drosophila* are represented by cimilar human ESTs, including seven *in absentia* (Carthew, R. & Rubin, G. **Cell** 63: 561-577 (1990)),

-41-

big-brain (bib) (Rao, Y., Jan, L., & Jan, Y. **Nature 345**: 163-167 (1990)), the discs tumor suppressor (Woods, D. & Bryant, P. **Cell 66**: 1-20 (1991)), and the homeotic gene orthodenticle (Finkelstein, R., Smouse, D. Capaci, T.,

5   Spradling, A. & Perrimon, N. **Genes. Dev. 4**: 1516-1527 (1990)). New members of gene families previously known in humans include a Ca^{+2}-transporting ATPase, an ADP ribosylation factor, and a new neural-cell adhesion molecule gene.

10   The 1971 ESTs without a putative identification were analyzed using the coding-region prediction program CRM via the GRAIL server (Uberbacher, E. & Mural, R. **Proc. Natl. Acad. Sci. USA 88**: 11261-5 (1991)). Fifteen percent of the unknown ESTs scored an excellent probability of containing

15   protein-coding sequence. Fifty percent of the ESTs to known human genes contain protein-coding sequences, therefore, at most half of the unknown ESTs are likely to contain coding sequences. We have found no evidence that genomic DNA or cDNA to unspliced precursor RNA is a major contaminant of

20   either the hippocampus or fetal brain library.

-42-

Table 2: ESTs Identified by Database Matches

SEQ ID	EST#	Putative Identification	Accession	DB	Len	%ID
208	EST00250	60K filarial antigen	A28209	PIR	108	56.9
2320	EST01784	60K filarial antigen	A28209	PIR	88	50.6
969	EST01982	ADP-ribosylation factor 1	B33283	PIR	84	41.2
1834	EST01620	AMP deaminase, brain	A37056	PIR	57	100.0
97	EST00289	Aconitase	A35544	PIR	105	90.6
251	EST00370	Actin, other	S10021	PIR	44	51.1
248	EST00271	Actinin, alpha	HUMACTAR	GB	271	85.3
891	EST01891	Actinin, alpha	HUMACTAR	GB	315	81.6
1500	EST02538	Actinin, alpha	HUMACTAR	GB	271	75.0
132	EST00110	Agrin	RATAGR	GB	269	82.2
1852	EST01625	Agrin	RATAGR	GB	103	84.6
1094	EST02113	Ala	HUMALA	GB	92	82.8
691	EST00675	Alcohol dehydrogenase	RICGOS2G_1	GPU	38	59.0
2408	EST00244	Amyloid A4	HUMAFPA4	GB	135	91.9
1965	EST01664	Amyloid A4	A29030	PIR	52	54.7
2068	EST01694	Amyloid A4	QRHUA4	PIR	83	69.0
2092	EST01700	Anion exchanger homolog AE3	A33638	PIR	95	97.9
1880	EST01634	Axonal glycoprotein TAG-1	A34695	PIR	69	87.1
1492	EST02530	B cell-specific Mo-MLV integration site 1 (bmi-1)	MUSBMI1A	GB	111	87.5
1277	EST02306	Bib protein	S09699	PIR	57	53.4
13	EST00255	Cadherins	CADN$HUMAN	SP	41	45.2
1348	EST02378	cAMP-dependent protein kinase inhibitor	MUSPKI	GB	234	91.5
1931	EST01041	cAMP-regulated phosphoprotein	B35308	PIR	21	86.4
1413	EST02447	cAMP-specific phosphodiesterase	HUMPDEAA	GB	363	69.0
396	EST01443	CDPdiacylglycerol-serine O-phosphatidyltransferase	JH0368	PIR	33	41.2
1956	EST01663	Ca2+-transporting ATPase 2	B28065	PIR	125	88.9
1126	EST02146	Calbindin D28	RATCALBD28	GB	81	87.8
1039	EST02055	Calcium channel	S05054	PIR	33	67.6
1910	EST01645	Calmodulin	RATRCM1	GB	120	90.1
485	EST01466	Calmodulin-dependent protein kinase, type II, beta	A26464	PIR	93	98.9
913	EST01913	Clathrin coat assembly protein AP50 homolog	YSCYAP54_1	GPU	62	63.5
2004	EST01676	Cofilin	PIGCOFIL	GB	132	89.5
2400	EST01824	Cysteine-rich intestinal protein	GYRTI	PIR	56	66.7
1588	EST02633	D22Z3 repetitive DNA	HUMREP	GB	160	76.4
2192	EST01257	Diacylglycerol kinase, lymphyocyte	S09156	PIR	44	42.2
1441	EST02477	Diamine acetyltransferase	ATDA$HUMAN	SP	74	45.3
650	EST00642	Dilute (myosin heavy chain)	MUSDILUTE_1	GPU	27	100.0
2302	EST01779	Discs-large tumor suppressor	DRODLGA_1	GPU	53	63.0
188	EST00256	Enhancer of split	A30047	PIR	86	58.6
2289	EST01325	Fatty acid synthase	RATFAS	GB	98	79.8
310	EST00377	Fo ATPase beta subunit, mitochondrial	BOVMTASB	GB	293	85.4
1332	EST02362	GA binding protein, beta subunit	MUSGAC_1	GPU	86	90.8
1667	EST00825	Gamma-aminobutyric acid transporter	A35918	PIR	26	59.3
2217	EST01738	Gelation factor ABP-280	A37098	PIR	74	80.0
1412	EST02446	Glutamate-aspartate carrier protein	JV0092	PIR	57	37.9
1020	EST02034	Glutaminase	GLS$RAT	SP	34	74.3
1885	EST01639	Histocompatibility antigen modifier 1	A37779	PIR	63	75.0
1495	EST02533	Hypothetical 43.5K protein	JU0319	PIR	43	52.3
2326	EST01791	Inositol-1,4,5-trisphosphate 3-kinase	JN0129	PIR	65	68.2
SEQ ID	EST#	Putative Identification	Accession	DB	Len	%ID

SEQ ID	EST#	Putative Identification	Accession	DB	Len	%ID
724	EST01529	Interferon-induced 54K protein	INI4$HUMAN	SP	76	70.1
1035	EST02051	J1 protein	MUSJ1PRO	GB	362	85.7
1229	EST02258	KUP protein	HUMKUPMR_1	GPU	54	36.4
993	EST02007	Kinase 5 protein	CHKCEK5_1	GPU	68	94.2
77	EST00257	Kinesin	A35075	PIR	57	86.2
78	EST00258	Kinesin	A35075	PIR	62	47.6
2245	EST01748	Kinesin	A35075	PIR	98	52.5
2282	EST01764	Lamin B receptor	A36427	PIR	76	71.4
2173	EST01724	Lon protease	JQ0901	PIR	103	41.3
1427	EST02463	Long-chain-fatty-acid-CoA ligase	A36275	PIR	36	62.2
313	EST00276	Lysosomal membrane glycoprotein 1 (LAMP-1)	A31959	PIR	53	46.3
161	EST00247	MARCKS (myristoylated alanine-rich protein kinase	BOVMARCKS	GB	139	83.6
1386	EST02418	MARCKS homolog	MMF52	EU	237	92.4
769	EST00734	MARCKS homolog	S08341	PIR	61	40.3
43	EST00371	Maternal G10 protein	S05955	PIR	38	92.3
1468	EST02505	Matrin 3	RATMATRIN3	GB	137	93.5
639	EST00632	Membrane transport superfamily (GTP-dependent)	A24400	PIR	63	39.1
1894	EST01643	Membrane transport superfamily (GTP-dependent)	A24400	PIR	71	50.0
824	EST01865	Microtubule-associated protein 1B	RATNEU	GB	293	86.4
223	EST00368	Microtubule-associated protein 1B	A33645	PIR	30	54.8
2032	EST01683	Microtubule-associated protein 1B	A33645	PIR	49	62.0
2017	EST01678	Milk fat globule membrane protein	A36479	PIR	48	61.2
1704	EST01580	Myeloid differentiation primary response gene MyD1	MUSMYD118_1	GPU	76	88.3
2226	EST01744	NAD(P)+ transhydrogenase (B-specific)	DEBOXM	PIR	86	93.1
1567	EST02610	Neural cell adhesion molecule L1	S05479	PIR	82	43.4
506	EST01471	Neuraxin	S06017	PIR	120	84.3
1566	EST02609	Neutrophil oxidase factor	A34855	PIR	43	47.7
952	EST01961	Notch/Xotch	HUMTAN1_1	GPU	85	57.0
227	EST00259	Notch/Xotch	A35844	PIR	74	85.3
1395	EST02429	Nuclear factor 1-like protein (NF1)	HAMNF1A	GB	111	92.0
1681	EST01573	Nucleoside diphosphate kinase	A33386	PIR	71	52.8
346	EST01828	Otd homeotic protein	A35912	PIR	35	52.8
2254	EST01751	Phosphatidylinositol-4,5-bisphosphate phosphodiest	A28807	PIR	40	90.2
1869	EST00992	Polymyxin B resistance	A32714	PIR	20	76.2
93	EST00287	Processing enhancing protein	S03968	PIR	96	58.8
2353	EST01806	Prohibitin	RATPROHIB_1	GPU	120	97.5
2297	EST01775	Prohormone cleavage enzyme	MUSMPC1A_1	GPU	91	93.5
9	EST00376	Prolyl endopeptidase	PIGPREP	GB	223	83.9
1069	EST02087	Protein kinase C, zeta	HUMPKCL	GB	382	58.7
1933	EST01650	Protein phosphatase 2A beta subunit	HUMPROP2AB	GB	288	76.8
202	EST00298	Protein-tyrosine phosphatase LRP	LRP$MOUSE	SP	62	44.4
1654	EST01572	Protochlorophyllide reductase	S04783	PIR	34	57.1
38	EST00374	RNA polymerase II 6th subunit (RPO26)	A36352	PIR	72	75.3
1478	EST02515	Rab5	F34323	PIR	91	82.6
2368	EST01389	Radial spoke protein 3	S05962	PIR	58	52.5
37	EST00038	ras p21-like small GTP-binding protein (smg GDS)	BOVSMGGDS	GB	131	89.4
180	EST00299	ras-related proteins	S10493	PIR	51	46.1
1700	EST01579	Retrovirus-related gag polyprotein	FOHUE2	PIR	95	77.1
1511	EST02550	Retrovirus-related pol polyprotein	GNLJGL	PIR	50	54.9
102	EST00248	rho H12/ ARH12	BOVBGBRH	GB	195	79.6
1715	EST01583	Ribosomal protein L18a	R5RT18	PIR	68	95.7
SEQ ID	EST#	Putative Identification	Accession	DB	Len	%ID

1856	EST01627	Ribosomal protein L1a	A24579	PIR	75	63.1
1974	EST01667	Ribosomal protein L3	JQ0771	PIR	74	80.0
301	EST00300	Ribosomal protein L30	R6RT30	PIR	57	96.5
22	EST00301	Ribosomal protein S10	R3RT10	PIR	66	97.0
2402	EST01826	Ribosomal protein S10	R3YM10	PIR	36	51.4
463	EST01459	Ribosomal protein YL10	S11581	PIR	40	68.3
1408	EST02442	Seven in absentia	A36195	PIR	46	80.8
299	EST00249	smg p25A GDP dissociation inhibitor	A35652	PIR	97	77.5
951	EST01960	Spectrin, beta	HUMSPTB	GB	268	67.7
2089	EST01699	Sperm membrane protein	A35981	PIR	52	58.5
2073	EST01697	Succinate dehydrogenase flavoprotein	BOVSDHFP1_1	GPU	44	100.0
2138	EST01715	Succinate dehydrogenase flavoprotein	BOVSDHFP1_1	GPU	49	92.0
430	EST00472	Synaptotagmin (p65)	SY65$HUMAN	SP	27	53.6
1371	EST02402	Talin	MUSTALINR_1	GPU	79	81.2
1771	EST01601	Thiosulfate sulfurtransferase (rhodanese)	ROBO	PIR	65	81.8
300	EST00232	Transforming protein (dbl)	TVHUDB	PIR	25	65.4
189	EST00282	trkB	A35104	PIR	33	67.6
653	EST01512	Tubulin, alpha	HUMTUBAG	GB	223	75.0
594	EST01490	Tubulin, beta	HUMTBB5	GB	298	93.6
757	EST01542	Tubulin, beta	HUMTUBBM	GB	217	90.4
1245	EST02274	Tubulin, beta	A26561	PIR	105	88.7
1147	EST021C9	Tyrosine kinase	HUMECK	GB	384	74.3
1701	EST00853	Unc-104	JN0114	NR	36	45.0
2121	EST01711	Valine-tRNA ligase	A29871	PIR	56	57.9
187	EST00152	Wilm's tumor-related protein	HUMQM	GB	228	99.6
1726	EST01588	XPR2 alkaline extracellular protease	826955	PIR	88	46.1
249	EST00275	Zinc Finger Proteins	S06551	PIR	25	57.7
413	EST01446	Zinc Finger Proteins	S00754	PIR	45	60.9
469	EST01460	Zinc Finger Proteins	C32891	PIR	34	54.3
833	EST01560	Zinc Finger Proteins	S00754	PIR	105	67.0
1230	EST02259	Zinc finger proteins	S00754	PIR	71	62.5
1496	EST02534	Zinc finger proteins	A34612	PIR	50	45.1
2324	EST01352	Zinc Finger Proteins	S10397	PIR	29	56.7

-45-

There is little redundancy in EST sequencing according
to the present invention. Of the nuclear-encoded messenger
RNAs, the most common ESTs were to the β-actin (0.6% of the
EST clones) and myelin basic protein genes (MBP, 0.5% of

5   the clones). MBP, a highly expressed structural component
of nerve tissue (Kamholtz, J., de Ferra, F., Puckett, C., &
Lazzarini, R. **Proc. Natl. Acad. Sci., USA 83**: 4962-4966
(1986)), displays four alternate splicing forms, of which
at least two are present among the ESTs reported here.

10   Other common ESTs were Gs-alpha gamma-actin and both a- and
alpha-tubulin.

By matching ESTs to known database sequences, a
phenotypic characterization of the tissue begins to emerge.
Protein superfamilies matched by ESTs were grouped into

15   three broad functional categories to assess the biological
spectrum represented by these randomly selected cDNA
clones. Structural and metabolic classes comprised about
30% of the ESTs with database matches. Twenty-five percent
were involved in regulatory pathways and the remainder were

20   not classifiable. Eleven of the eighteen enzymes of
glycolysis and the citric acid cycle are represented by at
least one subunit or isozyme. In addition, several genes
not previously known to be expressed in the brain were
matched, including spermine/spermidine acetyltransferase

25   (Casero, R., Celano, P, Ervin, S., Applegren, N., Wiest, L.
& Pegg, A. **J. Biol. Chem. 266**: 810-814 (1991)) and
osteopontin (Young, M., Kerr, J., Termine, J., Wewer, U.,
Wang, M., McBride, W. & Fisher, L. **Genomics 7**:491-502
(1990)).

30   **EXAMPLE 5**

                    <u>Mapping of ESTs to Human Chromosomes</u>

Randomly selected ESTs corresponding to SEQ ID NOs.
were assigned to chromosomes via PCR (see Table 3).
Oligonucleotide primer pairs were designed from EST

sequences to minimize the chance of amplifying through an
intron. The oligonucleotides were 18-23 bp in length and
designed for PCR amplification using the computer program
INTRON (National Institutes of Mental Health, Bethesda,

5   MD). The program is based on the assumptions that: 1)
introns are genomic sequences that interrupt the coding and
noncoding sequences of genes (Smith, **J. Mol. Evol. 27:45-55**
(1988)); 2) there are consensus sequences for splice
junctions (Shapiro, et al., **Nucl. Acids Res. 15:7155-7174**

10   (1987)); and 3) that 90% of the human genes studied have
3' untranslated regions of mRNA not interrupted by introns
in the genomic DNA (Hawkins, **Nucl. Acids Res. 16:9893-9908**
(1988)).

        The program evaluates the likelihood that a given GG

15   or CC dinucleotide represents a former exon-intron
boundary. Specifically, every input strand is processed by
the INTRON program twice, first evaluating the sense mRNA
strand, and then processing the complementary or anti-sense
strand. The program evaluates each sequence by finding all

20   GG or CC pairs (possible former splice sites), searching
for STOP codons in all three reading frames, and analyzing
the GG or CC pairs surrounded by stop codons. All regions
of the EST that are unlikely to contain splice junctions
based on CC content, GG content, and stop codon frequency

25   are then marked by the program in uppercase.

        The creation of PCR primers from known sequences is
well known to those with skill in the art. For a review of
PCR technology see Erlich, H.A., **PCR Technology; Principles**
and Applications for DNA Amplification. 1992. W.H. Freeman

30   and Co., New York. ESTs were examined for the presence of
stop codons in each reading frame and for consensus splice
junctions. The presence of stop codons and absence of
splice junction sequences are more characteristic of 3'
untranslated sequences than of introns. The untranslated

35   sequences are unique to a given gene; thus, primers from

-47-

these regions are less likely to prime other members of a
gene family or pseudogenes.

The primers were used in polymerase chain reactions
(PCR) to amplify templates from total human genomic DNA.
5   PCR conditions were as follows: 60 ng of genomic DNA was
used as a template for PCR with 80 ng of each
oligonucleotide primer, 0.6 unit of Tag polymerase, and 1
uCu of a ^{32}P-labeled deoxycytidine triphosphate. The PCR
was performed in a microplate thermocycler (Techne) under
10   the following conditions: 30 cycles of 94°C, 1.4 min; 55°C,
2 min; and 72°C, 2 min; with a final extension at 72°C for
10 min. The amplified products were analyzed on a 6%
polyacrylamide sequencing gel and visualized by
autoradiography. If the size of the resulting product was
15   equivalent to the EST from which the primers are derived,
then the PCR reaction was repeated with DNA templates from
two panels of human-rodent somatic cell hybrids; BIOS
PCRable DNA (BIOS Corporation) and NIGMS Human-Rodent
Somatic Cell Hybrid Mapping Panel Number 1 (NIGMS, Camden,
20   NJ).

PCR was used to screen a series of somatic cell hybrid
cell lines containing defined sets of human chromosomes for
the presence of a given EST. DNA was isolated from the
somatic hybrids and used as starting templates for PCR
25   reactions using the primer pairs from EST sequences
selected above. Only those somatic cell hybrids with
chromosomes containing the human gene corresponding to the
EST will yield an amplified fragment. ESTs were assigned
to a chromosome by analysis of the segregation pattern of
30   PCR products from hybrid DNA templates. For a review of
techniques and analysis of results from somatic cell gene
mapping experiments. (See Ledbetter et al., **Genomics**
6:475-481 (1990).) The single human chromosome present in
all cell hybrids that give rise to an amplified fragment
35   represents the chromosome containing that EST.

The assignment of 100 ESTs and corresponding genes to chromosomes by PCR is shown in Table 3.

Table 3: Assignment of ESTs to Chromosomes by PCR

SEQ ID	EST#	Chr	PRIMER #1	PRIMER #2
5	EST00012	1	TCCAGGCAATCCCAGAATAG	CTAATTGAGCTCACTGGCCC
57	EST00058	1	CTGTTTGCAAGTTTCAAAGC	GCCATTTCTAACAACCAGAG
64	EST00066	1	GCCATTGTGCTGAATAGAGT	GTTAGTGTTTCCTTAGCAAG
83	EST00079	1	CAGCTAATTGACCTGGGCTA	CAACATGCTCTGAGCTTTAG
83	EST00079	1	GGCAGAGCATAATGAGTATA	CATATGCATATGGTCCCTAT
91	EST00086	1	AGTTTAGATGGAGGGCTGTC	TCTGCCCTAATGCGCAGGCT
105	EST00365	1	CTTAATCACCTCCCTTTTGT	CCTTAGTTGGAGATAAGGTC
109	EST00095	1	AGTCTAATCCTGTACACTTG	CGGGCTTTCTCTGAATTGGT
116	EST00100	1	TTAGAAGTGCCCATGGGAGG	TTTTAAGGCTCTGGAGTGTT
141	EST00118	1	CTCAGAGAAACTTAGGTGAA	CTACAGAATCATTTCACCAG
220	EST00372	1	AAGTTGCACATTGCCCAAGG	ATAGTACTGCAAGGTTATTC
237	EST00187	1	TTACAAATTTCTCTTGACGC	CTGAAGGAGCACAGTTTCTC
242	EST00192	1	GGATCAGATAATCAAACAGG	GCTTAGGATATGAATGCATA
259	EST00202	1	GCATCACAGTTTAACTGAGG	CTACATATTTGTGCCTCCTT
269	EST00293	1	CTGTTGCTGTGCAGTAGCTT	CTTTTGACCCAGTGAAACTT
299	EST00249	1	GATCATGCAGACGTAGATAT	CCAACTCCTGCCAGATCATT
1651	EST00810	1	TAGTCGCTGTAAGTTGATTC	GCTTTGCTGGATGCTTCATT
16	EST00021	2	CAGGCAAGTTTCTTCCAGGA	TCAGACCCATGGTCAGCTT
1898	EST01013	2	GGCTGAGAACGGTTAGCATA	CCCTCAGCTTAGGGGAATG
8	EST00234	2	TAGAAGGCAAACTATGTCCC	GGTTGAGGATTGGCTTTTAC
36	EST00037	2	AGCCAGAAGGCTGCTTAAAG	GCAGTGAACCAGTACTCCTA
123	EST00106	2	GTCTAATTTGTAACCTTCAG	GATAGATTGTATAAGAAGCC
192	EST00155	2	GATTTATGTCTGGGAACTAA	GCAGCATGTGAAAGAATGAT
200	EST00162	2	TTTAATGGGTGGTGGGAGCT	CGATGCACATCCTTCTCCAT
284	EST00216	2	CCTAAGAATTCGTTTGGCTC	GTCTGGCACATAATAGATTTG
102	EST00248	3	ATACTACATCTAGTCTGG	TTACAGTTCTGTGGTTTC
167	EST00138	3	AAACAGCTGCGGAGTACA	AAAGGATCCTCCACTCCAGA
12	EST00274	3	CCTAGCAAACTCATACACAC	CATAAGTGAATGGACACAGG
60	EST00062	3	ACACATTAACGGTGCTGCAG	GGAATCAGCCCTTGAGGACT
77	EST00257	3	AAGCTCACAACGCAGATCTG	CTGGAACAGCTTACAAAGGT
107	EST00093	3	ATTGAACTCTGTCAACAGTG	TGTAAAACAAAGGCCAAACT
108	EST00094	3	AL2-GCAGGATGTCAGTCTTTTGAG	AGCACACATTATCTACCACGGC
1706	EST00857	3	AL2-GCAGGATGTCAGTCTTTTGAG	CCAGCACACATTATCTACCACG
37	EST00038	4	AACTTCGCAGTCATGAGAAC	TGTATCGGGCAGTTCTCAG
6	EST00013	4	CACATGTTCTCCCTCTTTCA	GCATTTTGGAGCTCTTCCGT
37	EST00038	4	AL2-GGAAGTACAGGATTTGGC	TTAGAGATGGGATGATGCCG
31	EST00033	5	TGGGTACCCTAAGGTGTTTG	GACTAATCTAAGGTCTAGG
28	EST00030	5	AGATAAGTTAGGAAGCTGGT	ACTCACTGCTAGTATCATCC
59	EST00061	5	AAAGTTTCTTAGCACCCCCC	CAGACTTTGACAAAAGAATC
74	EST00073	5	ATCAGACACGTGGCAGGGTT	AAGTCCCTGAGGGTGCAGAA
121	EST00104	5	TGAAGGCAGCTGCTAAATCT	GGATGTATTGATCTGACTCA
149	EST00123	5	ATACTGTCAACGGAGGGTGA	GTCTGCAGGTTTCTCCTTGA
235	EST00185	5	TTACTGTCCCATCAGATATC	TACACTCTTAAGAAGGTATG
1643	EST00803	5	GAGCGTTTAAAAGAGATTCT	TACAGACAGCCATGTTCCAA
1677	EST00835	5	AL2-TCTCCAACACAGTCATGC	CGGATGCCATCATATACC
23	EST00026	5	CCTGCAGTGACACTTAACAT	CTGCTCACCTGAAATTGATAC
121	EST00104	5	AL2-CAGATCAATACATCCTCTGGG	CTGTGCAGTGGTGAGTAAAAGG

SEQ ID	EST#	Chr	PRIMER #1	PRIMER #2
1	EST00007	6	TAGTTGATGGTCTGGGTTAT	GAAATCCCAGGGAGACAATG
19	EST00023	6	CAACTTACATTAGGGGTTTG	GACCTCATTAGAAGAGCCCA
155	EST00129	6	GGAAGCTGCCATATAAGCTC	TCAGTGTCGTACAATCTACC
224	EST00356	6	GCTGTATGTTAACCCTTTGT	TGGAACCCTCAAACACTGCT
288	EST00219	6	ACTTTCATGTTGAGAAGTAT	ATCTAGCTGAAACATTGCTG
1638	EST00798	6	CTTCATCTGTTAACTGTTGA	TGAAAATGAGTCACAGGCAG
1675	EST00833	6	AL2-ACCCAGTTCTCAAAGACC	GGTTTACCATTCAGAGGC
22	EST00301	6	CTCCGTGATTACCTTCATCT	TTGTAGGTATCTCTGTCAGCT
207	EST00167	7	GGTGCTACTTTGTGAATGCT	AGCAATGTGATTTTGTAGG
137	EST00272	7	AGTGGTCACTATCTACATGG	GATTCAGAATTACTAAGCCG
1659	EST00817	7	TGTATAGGCTCTACATAAAG	CTTAATCATGGATTCTTCGT
1680	EST00838	7	AL2-GTTCTTTCCCAGGTATGC	TTGTTGGTACTGAGGAAGTGCG
292	EST00223	8	TGCAGCAGTGACCATGAGAA	ATCATCTTTCCACGCGGCTT
134	EST00375	9	TCTGGGCTTCTGTGGTTCAA	CTGGCTGCTCAGCAACTCAT
1906	EST01021	9	GGATGTTTTCTATGTGACGA	TTCCAGTGCCCCTTTTGTCC
1645	EST00804	10	CTCCTTTGGGACAAACAACT	CCAACCCAAACATATTCTA
20	EST00024	10	AGCTGTTCCTGAAGAGCA	CCTTGTGAAGAAAGACTTTC
157	EST00131	10	TCAGCAACAGGTCACTTTGG	CTAAGCATCTGCATGTCCAG
172	EST00142	10	TACTAGCATTTCTTACTCTC	TATGCTGATTGTTTGCACTC
250	EST00197	10	GGTGATTAGAGAGTCTGTTG	GAACTCTGTAGTGTTCTAAA
133	EST00111	11	GGAAATTAGGCTTAGCTCAC	GTGCAGAATACTTAGAGTCC
178	EST00294	11	GTTTGAAGGAAGTGATTTCC	TAGGGCCACCTCCAGTTCAT
10	EST00016	11	GTCTTTGGATTCTACGTAGA	CGATAATGACATTTCTTCTGG
126	EST00109	11	AL2-CTAACCACAACCCACACATTG	CCTCAGCACAAGAGAAGAATGG
7	EST00014	12	AACTTGCAACATAAATACTAG	GAGCAATGATTTCTAACAGT
254	EST00200	13	TTGTGTACTGTCTGATAGAC	TAAGCCATGGGCATCTATAA
2409	EST00273	13	GCAAGATGATGGAACATCCC	TTCCTTCTGGAGGCTCTACA
170	EST00295	14	GGTGCTTAAGGCCACTTTTG	CTTAGAGGATCATAGGTCTG
255	EST00201	14	CCAGGAGAGTAAGAAGATCA	GCAGAGTTGAATATGAACCT
290	EST00221	14	GTGCCAAGATGGCTCATGTA	GTATAGCTTTAAGCCAGTTC
293	EST00224	14	AATGCATTATGCCTGGTCTT	GGAAAAGTCTAGAACTTAGT
1664	EST00822	14	GGGTCAGAATTAAGAGGTCT	GTTCATCTCTAACTCCTTTC
315	EST00008	14	AAGCTGGCTGGGAAATGTTC	GTCATGCTAGTAAACTTACAC
1689	EST00845	14	AL2-AGGAGGAAGCTGAAATCC	GGAAGTCCATAAGAGACTCACC
95	EST00088	15	GTGACAGACCATGTCTATTG	AAGTGAGCGATTGCACCTTC
205	EST00165	15	AGGATGACCTGAGTGAGCTG	CCATGGCAGCAAGGAACTCT
33	EST00034	16	TGTGTGAAAGGGAGTCTTGT	CCATTTTGACTGTTCCATAG
247	EST00279	16	TGGCTAGGGCAGGCCTTAAA	GAGAAGAATATCAAATGGGG
18	EST00373	16	CCATCTGTGTCCCAATTAAGC	AGGGAAGAAGTCTAGAGCGA
68	EST00068	17	CAAAGACGGGAGACGAATGA	AGTGGAACGCGTGGCCTATG
1652	EST00811	17	GAGCTGCATGTTGATAAGTA	TTGACTTAAGCTGACCTTAA
1702	EST00854	17	AL2-TTGCTGTGGAATCCATGAGAG	GGCAAGTGATCTGTTCTTGG
84	EST00080	19	AGAGATGTCAGTCCATTATC	CTATTCCACCTTACTCAAGG
223	EST00368	19	CATCATGTCGGAGACGCATT	TGGATGACCTGAGTCTGCAG
21	EST00025	20	AGTTCTGGAGGCTAGGAGTT	ATGTAAGGACCCCTAGATGG
210	EST00168	20	TGTCAACTTCCCTTTGGCCT	GAAGCTTGCTCATTCAGGAA
136	EST00113	20	AL2-TCGGAGAAGTTGCAGTTCTG	GTTAAAAGCTGTTAGACGGGGC
120	EST00103	22	CACTGACTGACTCCTCTTTA	GGAACCGTAACTCTCCATAG
313	EST00276	X	ATTGACCTTCAATGTAATAA	TTGGATTGGGCAAAATAG

-51-

SEQ ID	EST#	Chr	PRIMER #1	PRIMER #2
162	EST00133	X	ATGTGAGCATCTATACCTGC	AATGAAGGCATGAGAATAGG
1669	EST00827	X	CGGACAACTAGGATAAATGC	TACGCGTTTGAATGGCTTGA
1917	EST01029	X	GAATAGCATTATTAGCCAGT	GGACCTATTGGAGATCTACT
1708	EST00858	X	AL2-AAGGCGAGGATTATGTGC	TTCTACTGGGTACACTTCGACC

Abbreviation: AL2: Amino-Link-2 Fluorescent Tag, Chr.: Chromosome.

The foregoing techniques have been used to further
localize 9 ESTs and their associated genes to precise
locations onto chromosome 6 or chromosome X, as reflected
in Table 4A (in Example 7 below), using sublocalization
techniques that employ somatic cell hybrids. ESTs were
used as hybridization probes and mapped to other
chromosomes using techniques disclosed in Example 7.
Somatic cell hybrids were prepared that contained defined
subsets of chromosomes 6 and X. Methods for preparing and
selecting somatic cell hybrids are known in the art. For a
review of an exemplary procedure to generate somatic cell
hybrids containing the short arm of human chromosome 6, see
Zoghbi, et al., **Genomics** 9(4):713-720 (1991). For a
general review of somatic cell hybridization see Ledbetter
et al.(supra). The hybrids were processed to obtain DNA
and analyzed by PCR and by fluorescence in situ
hybridization. SEQ ID NOs 19, 22, 1, 224, 288 mapped to
chromosome 6, while SEQ ID NOs 162, 1917, 1699 and 1899
mapped to chromosome X using somatic cell hybrids.

EXAMPLE 6

Mapping of All ESTs to Human Chromosomes

The procedure of Example 5 is repeated for all of the
ESTs from Examples 1 and 2 not previously mapped to human
chromosomes. Data are generated corresponding to the data
in Table 3 for all of the unmapped ESTs. As previously
mentioned, virtually all of the ESTs will map to a unique
chromosomal location. The inability of any ESTs to
localize to a unique location will be readily ascertainable
during the mapping process.

Physical mapping of the type reported in Table 4 on
all the EST clones reported here would provide human
chromosome markers spaced on average every 1.2 megabases
and would roughly double the number of expressed sequences
that have been localized to chromosomes (McKusick, V. **FASEB**

-53-

J. 5: 12-20 (1991)). Mapped ESTs are also a new resource
to identify candidates for the estimated 5000 single-locus
disease-associated genes (Id.).

EXAMPLE 7

5   <u>Alternative Technique for Mapping to Chromosomes</u>
<u>Mapping of ESTs to chromosomes using fluorescence in situ</u>
<u>hybridization</u>

This technique was used to map an EST to a particular
location on a given chromosome. Cell cultures, tissue, or
10   whole blood were used to obtain chromosomes.

0.5 ml. of whole blood was added to RPMI 1640 and
incubated 96 hours in a 5%CO_2/37°C incubator. 0.05 ug/ml
colcemide was added to the culture one hour before harvest.
Cells were collected and washed in PBS. The suspension was
15   incubated with a hypotonic solution of KCl added dropwise to
reach a final volume of 5 ml. The cells were spun down and
fixed by resuspending the cells in methanol and glacial
acetic acid (3:1). The cell suspension was dropped onto
glass slides and dried.

20   The slides were treated with RNase A and washed then
dehydrated in a series of increasing concentrations of
ethanol.

The EST to be localized was nick-translated using
fluorescently labeled nucleotide (Korenberg, Jr., et al.,
25   **Cell 53(3)**:391-400 (1988)). Following nick translation,
unincorporated label was removed by spin dialysis through
Sepharose. The probe was further extracted with phenol-
chloroform to remove additional protein. The chromosomes
were denatured in formamide using techniques known in the art
30   and the denatured probe was added to the slides. Following
hybridization, the cells were washed. The slides were
studied under a fluorescent microscope. In addition, the
chromosomes can be stained for G-banding or Q-banding using
techniques known in the art.

-54-

The resulting metaphase chromosomes had fluorescent tags localized to those regions of the chromosome that were homologous to the EST. Thus, a particular EST was localized to a particular region on a given chromosome. In this manner, SEQ ID NOs 396, 485, 506, 1880 and 1894 were mapped using fluorescent in situ hybridization to locations on chromosomes 17, 7, 10 and 1 respectively (See Table 4B below). For a review of the technique see Verma et al., **Human Chromosomes: A Manual of Basic Techniques.** Pergamon Press, NY (1988), which is hereby incorporated by reference.

Table 4: Precise Chromosomal Localization of ESTs

	SEQ ID	EST#	Map Location
A.	19	EST00023	6p
	22	EST00301	6p
	1894	EST01643	6p21
	1	EST00007	6q
	224	EST00356	6q
	288	EST00219	6q
	162	EST00133	Xp11.21 - Xp21.2
	1917	EST01029	Xp11.21 - Xp21.2
	1669	EST00827	Xq26 - Xq27.1
	1899	EST01014	Xq28
B.	1880	EST01634	1q32
	485	EST01466	7p13
	506	EST01471	10q11.2
	396	EST01443	17q25

EXAMPLE 8

Automated DNA Sequencing Accuracy

ESTs that match human sequences in GenBank are excellent tools for the analysis of the accuracy of double-strand automated DNA sequencing. Ninety EST/GenBank matches were examined for the number of nucleotide mismatches and gaps required to achieve optimal alignment by the Genetics Computer Group (GCG) program BESTFIT (Devereux et al, **Nucleic Acids Research 12:** 387 (1984)).

-55-

The number of mismatches, insertions and deletions was
counted for each hundred bases of the sequence (Table 5).
As expected, the sequence quality was best closest to the
primer and decreased rapidly after about 400 bases. The
5   number of deletions and insertions relative to the GenBank
reference sequence increased five- to ten-fold beyond 400
bases, while the number of mismatches doubled. The average
accuracy rate for individual double-stranded sequencing
runs was 97.7% to 400 bases.

-56-

TABLE 5. Accuracy Of Single-Run Double-Stranded Automated Sequencing

Bases from Primer	Mismatches/ Ambiguities[+]	Gaps Insertions[+]	Percent Deletions[+]	Aligned Accurate	Bases
101 - 200	1.45	0.18	0.19	98.2	8,800
201 - 300	1.72	0.25	0.11	97.9	8,130
301 - 400	2.07	0.98	0.37	96.6	5,404
>400	3.53	2.63	1.06	92.8	3,197

ESTs statistically identical to known human sequences and those matching mitochondrial and ribosomal genes were aligned with sequenced from GenBank using the GCG program BESTFIT. The first 85 nucleotides was polylinker sequence which was not aligned with the pBluescript SK reference sequence. Tabulation of errors began 15 bases into the BESTFIT alignment and thus is reported beginning with bases 101-200. [+]Error rates are reported as number of mismatches, insertions, or deletions per hundred aligned bases. "Mismatches" includes ambiguous base calls.

-57-

EXAMPLE 9

Probability of ESTs Containing Coding Sequences

The ESTs of the present invention were statistically
evaluated using the coding-region prediction program CRM
via the GRAIL server (Uberbacher, E. & Mural, R. **Proc.
Natl. Acad. Sci. USA, 88**: 11261-5 (1991)). The CRM program
uses a neural network to combine results from several
different coding regions by looking at different 6 bp
sequences found in coding exons and in introns. The
program additionally conducts reading frame searches and
assesses randomness at the third position of codons. This
protocol categorizes sequences as having an excellent,
good, marginal, or poor probability of containing coding
regions. The results are reported in Tables 6-9. There
were 219 ESTs categorized as "excellent" (Table 6); 120
categorized as "good" (Table 7); 113 categorized as
"marginal" (Table 8); and 1743 categorized as "poor" (Table
9). These results indicate that most ESTs of the present
invention comprise noncoding regions.

Table 6: ESTs with Excellent Probability of Containing Coding Sequence

SEQ ID#	EST#	SEQ ID#	EST#	SEQ ID#	EST#	SEQ ID#	EST#
7	EST00014	973	EST01987	1807	EST00941	2373	EST01393
15	EST00020	979	EST01993	1809	EST00943	2374	EST01394
48	EST00291	980	EST01994	1820	EST00951	2393	EST01417
62	EST00064	986	EST02000	1829	EST00958	2394	EST01418
66	EST00067	1000	EST02014	1849	EST00975	2396	EST01420
75	EST00074	1004	EST02018	1860	EST00983		
98	EST00260	1007	EST02021	1866	EST00989		
106	EST00092	1018	EST02032	1871	EST00994		
108	EST00094	1021	EST02035	1888	EST01005		
114	EST00098	1034	EST02050	1890	EST01007		
115	EST00099	1047	EST02063	1892	EST01009		
124	EST00107	1090	EST02109	1903	EST01018		
128	EST00252	1096	EST02115	1904	EST01019		
156	EST00130	1115	EST02135	1914	EST01026		
164	EST00135	1118	EST02138	1930	EST01040		
166	EST00137	1129	EST02149	1944	EST01050		
174	EST00296	1133	EST02153	1949	EST01054		
179	EST00145	1141	EST02163	1962	EST01062		
183	EST00148	1163	EST02187	1973	EST01071		
201	EST00163	1183	EST02208	1977	EST01075		
205	EST00165	1243	EST02272	1982	EST01080		
215	EST00172	1264	EST02293	1991	EST01088		
230	EST00181	1265	EST02294	1993	EST01090		
253	EST00199	1266	EST02295	2000	EST01097		
263	EST00203	1287	EST02317	2001	EST01098		
268	EST00369	1308	EST02338	2012	EST01106		
270	EST00207	1324	EST02354	2013	EST01107		
271	EST00283	1344	EST02374	2024	EST01117		
273	EST00208	1356	EST02386	2043	EST01131		
276	EST00211	1365	EST02396	2051	EST01138		
281	EST00214	1383	EST02415	2056	EST01142		
285	EST00286	1399	EST02433	2058	EST01144		
333	EST00394	1401	EST02435	2059	EST01145		
336	EST00397	1405	EST02439	2064	EST01149		
339	EST00400	1417	EST02452	2090	EST01167		
362	EST00418	1451	EST02487	2094	EST01171		
389	EST00440	1457	EST02493	2116	EST01192		
441	EST00481	1463	EST02500	2117	EST01193		
454	EST00493	1473	EST02510	2128	EST01202		
476	EST00509	1479	EST02516	2131	EST01205		
493	EST00522	1516	EST02555	2134	EST01208		
504	EST00529	1528	EST02569	2144	EST01216		
516	EST00538	1531	EST02572	2145	EST01217		
518	EST00540	1544	EST02586	2150	EST01222		
551	EST01482	1551	EST02593	2155	EST01227		
552	EST00565	1558	EST02601	2161	EST01231		
559	EST00570	1561	EST02604	2163	EST01238		
582	EST00592	1581	EST02625	2174	EST01242		
602	EST00606	1586	EST02631	2176	EST01244		
606	EST00609	1591	EST02636	2189	EST01255		
608	EST00611	1616	EST02661	2214	EST01272		
621	EST00620	1624	EST02670	2225	EST01278		
635	EST00629	1630	EST02676	2227	EST01279		
642	EST00634	1637	EST00796	2233	EST01284		
644	EST00636	1639	EST00799	2235	EST01286		
687	EST00671	1649	EST00808	2236	EST01287		
700	EST00683	1651	EST00810	2255	EST01302		
743	EST00714	1677	EST00835	2259	EST01304		
753	EST00721	1682	EST00839	2263	EST01307		
760	EST00726	1694	EST00849	**SEQ ID#**	**EST#**		
764	EST00729	1706	EST00857				
808	EST00761	1708	EST00858	2267	EST01756		
823	EST01864	1710	EST00860	2281	EST01321		
834	EST00771	1716	EST00865	2283	EST01322		
886	EST01886	**SEQ ID#**	**EST#**	2300	EST01333		
919	EST01921			2303	EST01335		
930	EST01933	1718	EST00867	2303	EST01335		
SEQ ID#	**EST#**	1731	EST00879	2314	EST01345		
		1742	EST00887	2334	EST01358		
936	EST01939	1746	EST00891	2339	EST01362		
948	EST01957	1760	EST00903	2342	EST01365		
965	EST01978	1767	EST00907	2348	EST01371		
		1769	EST00909	2358	EST01379		
		1777	EST00913	2367	EST01388		

Table 7: ESTs with Good Pr bability f C ntaining Coding Sequence

SEQ ID#	EST#
20	EST00024
72	EST00071
82	EST00078
88	EST00084
137	EST00272
177	EST00328
193	EST00156
200	EST00162
218	EST00175
228	EST00179
247	EST00279
264	EST00204
267	EST00297
296	EST00228
371	EST00426
385	EST00436
392	EST00442
414	EST00460
433	EST00474
453	EST00492
471	EST00505
496	EST00525
524	EST00544
526	EST00546
529	EST00549
549	EST00563
557	EST00569
578	EST00588
596	EST00602
607	EST00610
619	EST00619
657	EST00646
660	EST00649
689	EST00673
695	EST00679
699	EST00682
729	EST00703
742	EST00713
747	EST00717
755	EST00723
759	EST00725
776	EST00738
778	EST00740
782	EST01551
829	EST00768
835	EST00772
836	EST00773
862	EST01872
881	EST01881

SEQ ID#	EST#
884	EST01884
924	EST01926
929	EST01932
938	EST01941
971	EST01985
995	EST02009
996	EST02010
1031	EST02046

SEQ ID#	EST#
1041	EST02057
1083	EST02102
1099	EST02118
1105	EST02124
1113	EST02133
1139	EST02161
1146	EST02168
1196	EST02221
1210	EST02238
1233	EST02262
1285	EST02314
1331	EST02361
1388	EST02421
1418	EST02453
1439	EST02475
1502	EST02540
1537	EST02578
1563	EST02606
1599	EST02644
1602	EST02647
1693	EST00848
1695	EST00850
1729	EST00877
1730	EST00878
1738	EST00883
1739	EST00885
1743	EST00888
1768	EST00908
1780	EST00916
1804	EST00938
1805	EST00939
1811	EST00945
1819	EST00950
1826	EST00956
1830	EST00959
1845	EST00971
1848	EST00974
1853	EST00977
1967	EST01066
1992	EST01089
1994	EST01091

SEQ ID#	EST#
1997	EST01094
2046	EST01134
2101	EST01177
2102	EST01178
2105	EST01181
2106	EST01182
2141	EST01213
2184	EST01251
2196	EST01260
2203	EST01264
2232	EST01283
2308	EST01339
2345	EST01368
2346	EST01369
2351	EST01373
2354	EST01375
2355	EST01376
2359	EST01380

SEQ ID#	EST#
2362	EST01383
2378	EST01397
2399	EST01423
2407	EST02714

Table 8: ESTs with Marginal Probability of Containing Coding Sequence

SEQ ID#	EST#		SEQ ID#	EST#
			1222	EST02251
			1224	EST02253
11	EST00018		1228	EST02257
12	EST00274		1267	EST02296
24	EST00027		1301	EST02331
45	EST00364		1397	EST02431
79	EST00076		1448	EST02484
90	EST00302		1480	EST02517
110	EST00096		1493	EST02531
144	EST00120		1499	EST02537
145	EST00121		1503	EST02541
192	EST00155		1527	EST02568
222	EST00177		1536	EST02577
234	EST00184		1548	EST02590
277	EST00212		1562	EST02605
319	EST00381		1572	EST02615
368	EST00423		1575	EST02618
370	EST00425		1595	EST02640
387	EST00438		1608	EST02653
402	EST00451		1610	EST02655
415	EST00461		1621	EST02667
418	EST00464		1627	EST02674
426	EST00470		1629	EST02677
503	EST00528		1631	EST02678
517	EST00539		1683	EST00840
522	EST00543		1692	EST00847
532	EST00551		1751	EST00895
540	EST00557		1756	EST00900
570	EST00580		1764	EST02690
573	EST00583		1770	EST00910
576	EST00586		1793	EST00929
613	EST00615		1847	EST00973
617	EST00617		1877	EST00998
626	EST00622		1897	EST01012
681	EST00665		1900	EST01015
726	EST00700		1939	EST01655
727	EST00701		1940	EST01046
738	EST00711		1954	EST01058
745	EST00715		SEQ ID#	EST#
752	EST00720			
791	EST00746		1990	EST01087
795	EST00749		2008	EST01103
803	EST00756		2031	EST01123
845	EST00777		2041	EST01130
852	EST00782		2044	EST01132
854	EST00784		2060	EST01146
907	EST01907		2100	EST01176
912	EST01912		2136	EST01210
935	EST01938		2153	EST01225
SEQ ID#	EST#		2204	EST01265
			2212	EST01270
968	EST01981		2248	EST01297
985	EST01999		2250	EST01299
988	EST02002		2266	EST01310
1043	EST02059		2309	EST01340
1081	EST02100		2347	EST01370
1089	EST02108		2388	EST01406
1116	EST02136		2398	EST01422
1134	EST02154		2405	EST01427
1205	EST02233			

Table 9: ESTs with Poor Coding Probability

SEQ ID#	EST#
1	EST00007
2	EST00009
3	EST00010
4	EST00011
5	EST00012
6	EST00013
8	EST00234
10	EST00016
14	EST00019
16	EST00021
17	EST00022
18	EST00373
19	EST00023
21	EST00025
23	EST00026
25	EST00028
27	EST00029
28	EST00030
29	EST00031
30	EST00032
31	EST00033
32	EST00233
33	EST00034
34	EST00035
35	EST00036
36	EST00037
39	EST00039
40	EST00040
41	EST00041
42	EST00042
46	EST00044
47	EST00046
49	EST00047
50	EST00048
51	EST00049
52	EST00052
53	EST00054
54	EST00055
55	EST00056
56	EST00057
57	EST00058
58	EST00059
59	EST00061
60	EST00062
63	EST00065
64	EST00066
67	EST00351
68	EST00068
69	EST00360
71	EST00070
73	EST00072
74	EST00073
76	EST00075
80	EST00077
81	EST00315
83	EST00079
84	EST00080
85	EST00081
86	EST00082
87	EST00083
89	EST00085
91	EST00086
92	EST00087
94	EST00353
95	EST00088
96	EST00089
99	EST00316
100	EST00090
101	EST00091
103	EST00317
104	EST00354
105	EST00365
107	EST00093
109	EST00095
111	EST00281
112	EST00318
113	EST00097
116	EST00100
117	EST00319
118	EST00101
119	EST00102
120	EST00103
121	EST00104
122	EST00105
123	EST00106
125	EST00108
126	EST00109
127	EST00320
129	EST00321
130	EST00355
131	EST00322
133	EST00111
134	EST00375
135	EST00112
136	EST00113
138	EST00114
139	EST00116
140	EST00117
141	EST00118
142	EST00323
143	EST00119
146	EST00122
147	EST00292
148	EST00236
149	EST00123
150	EST00124
151	EST00125
152	EST00126
153	EST00127
154	EST00128
155	EST00129
157	EST00131
158	EST00132
159	EST00325
160	EST00326
162	EST00133
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1596	EST02641
1597	EST02642
1598	EST02643
1600	EST02645
1601	EST02646
1603	EST02648
1604	EST02649
1605	EST02650
1606	EST02651
1607	EST02652
1609	EST02654
1611	EST02656
1612	EST02657
1613	EST02658
1614	EST02659
1615	EST02660
1617	EST02662
1618	EST02663
1619	EST02665
1620	EST02666
1622	EST02668
1623	EST02669
1625	EST02672
1626	EST02673
1628	EST02675
1632	EST02679
1633	EST02680
1634	EST02681
1635	EST02682
1636	EST02684
1638	EST00798
1640	EST00800
1641	EST00801
1642	EST00802
1643	EST00803
1645	EST00804
1646	EST00805
1647	EST00806
1648	EST00807
1650	EST00809
1652	EST00811
1653	EST00812
1655	EST00813
1656	EST00814
1657	EST00815
1658	EST00816
1659	EST00817
1660	EST00818
1661	EST00819
1662	EST00820
1663	EST00821
1664	EST00822
1665	EST00823
1666	EST00824
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1669	EST00827
1670	EST00828
1671	EST00829
1672	EST00830
1673	EST00831
1674	EST00832

SEQ ID#	EST#
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1676	EST00834
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1679	EST00837
1680	EST00838
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1685	EST00842
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1687	EST00843
1688	EST00844
1689	EST00845
1690	EST00846
1691	EST01577
1696	EST00851
1697	EST00852
1702	EST00854
1703	EST00855
1705	EST00856
1707	EST01581
1709	EST00859
1711	EST00861
1712	EST00862
1713	EST00863
1714	EST00864
1717	EST00866
1719	EST00868
1720	EST00869
1721	EST00870
1722	EST00871
1723	EST00872
1724	EST00873
1725	EST00874
1727	EST00875
1728	EST00876
1732	EST01590
1733	EST01591
1734	EST00880
1735	EST00881
1736	EST01592
1737	EST00882
1740	EST02687
1741	EST00886
1744	EST00889
1745	EST00890
1747	EST00892
1748	EST00893
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1750	EST00894
1752	EST00896
1753	EST00897
1754	EST00898
1755	EST00899
1757	EST01594
1758	EST00901
1759	EST00902
1761	EST01598
1762	EST00904
1763	EST00905
1765	EST01600
1766	EST00906
1772	EST02691
1773	EST00911
1774	EST00912
1775	EST02692
1776	EST01603
1778	EST00914
1779	EST00915
1781	EST00917
1782	EST00918
1783	EST00919

SEQ ID#	EST#
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1787	EST00923
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1789	EST00925
1790	EST00926
1791	EST00927
1792	EST00928
1794	EST01607
1795	EST00930
1796	EST00931
1797	EST00932
1798	EST00933
1799	EST00934
1800	EST00935
1801	EST00936
1802	EST00937
1803	EST01613
1806	EST00940
1808	EST00942
1810	EST00944
1812	EST02693
1813	EST00946
1814	EST00947
1815	EST01615
1816	EST00948
1817	EST00949
1818	EST01616
1821	EST00952
1822	EST00953
1823	EST00954
1824	EST01617
1825	EST00955
1827	EST01618
1828	EST00957
1831	EST01619
1832	EST00960
1833	EST00961
1835	EST00962
1836	EST01622
1837	EST00963
1838	EST00964
1839	EST00965
1840	EST00966
1841	EST00967
1842	EST00968
1843	EST00969
1844	EST00970
1846	EST00972
1850	EST01624
1851	EST00976
1854	EST00978
1855	EST00979
1857	EST00980
1858	EST00981
1859	EST00982
1861	EST00984
1862	EST00985
1863	EST00986
1864	EST00987
1865	EST00988
1867	EST00990
1868	EST00991
1870	EST00993
1872	EST00995
1873	EST01630
1874	EST00996
1875	EST01631
1876	EST00997

SEQ ID#	EST#
1878	EST00999
1879	EST01633
1881	EST01000
1882	EST01638
1883	EST01001
1884	EST01002
1886	EST01003
1887	EST01004
1889	EST01006
1891	EST01008
1893	EST01642
1895	EST01010
1898	EST01013
1899	EST01014
1901	EST01016
1902	EST01017
1905	EST01020
1906	EST01021

SEQ ID#	EST#	SEQ ID#	EST#	SEQ ID#	EST#	SEQ ID#	EST#	SEQ ID#	EST#
1907	EST01022	2016	EST01110	2118	EST01194	2223	EST01742	2332	EST01794
1908	EST01023	2018	EST01111	2119	EST01195	2224	EST01277	2333	EST01357
1909	EST01024	2019	EST01112	2122	EST01197	2228	EST01280	2335	EST01359
1911	EST02694	2020	EST01113	2123	EST01713	2229	EST01281	2336	EST01360
1912	EST01025	2021	EST01114	2124	EST01198	2231	EST01746	2337	EST01361
1913	EST01646	2022	EST01115	2125	EST01199	2237	EST01288	2340	EST01802
1915	EST01027	2023	EST01116	2126	EST01200	2238	EST01289	2341	EST01364
1916	EST01028	2025	EST01118	2127	EST01201	2239	EST01290	2343	EST01366
1917	EST01029	2026	EST01119	2129	EST01203	2240	EST01291	2344	EST01367
1918	EST02695	2027	EST01120	2130	EST01204	2241	EST01747	2349	EST01372
1919	EST01030	2028	EST01121	2132	EST01206	2242	EST01292	2350	EST02708
1920	EST01031	2029	EST01682	2133	EST01207	2243	EST01293	2352	EST01374
1921	EST01647	2030	EST01122	2135	EST01209	2244	EST01294	2356	EST01377
1922	EST01032	2033	EST01684	2137	EST01211	2246	EST01295	2357	EST01378
1923	EST01033	2034	EST01124	2139	EST01716	2247	EST01296	2360	EST01381
1924	EST01034	2035	EST01125	2140	EST01212	2249	EST01298	2361	EST01382
1925	EST01035	2036	EST01126	2142	EST01214	2251	EST01300	2363	EST01384
1926	EST01036	2037	EST01686	2143	EST01215	2252	EST01750	2364	EST01385
1927	EST01037	2038	EST01127	2147	EST01219	2253	EST01301	2365	EST01386
1929	EST01039	2039	EST01128	2148	EST01220	2256	EST02718	2366	EST01387
1932	EST01042	2040	EST01129	2151	EST01223	2257	EST01303	2369	EST01811
1934	EST01043	2042	EST01688	2152	EST01224	2258	EST01754	2370	EST01390
1935	EST01044	2045	EST01133	2154	EST01226	2260	EST01305	2371	EST01391
1936	EST01045	2047	EST01135	2156	EST01718	2261	EST01755	2372	EST01392
1937	EST01652	2048	EST01136	2157	EST01719	2262	EST01306	2375	EST01815
1938	EST01654	2049	EST01689	2158	EST01228	2264	EST01308	2376	EST01395
1941	EST01047	2050	EST01137	2159	EST01229	2265	EST01309	2377	EST01396
1942	EST01048	2052	EST01139	2160	EST01230	2268	EST01311	2379	EST01398
1943	EST01049	2053	EST01140	2162	EST01232	2269	EST01312	2380	EST01399
1945	EST01051	2054	EST01141	2163	EST01233	2270	EST01313	2381	EST01400
1946	EST02696	2055	EST01690	2164	EST01234	2271	EST01314	2382	EST01401
1947	EST01052	2057	EST01143	2165	EST01720	2272	EST01762	2383	EST01402
1948	EST01053	2061	EST01147	2166	EST01236	2273	EST01315	2384	EST01403
1950	EST01055	2062	EST02701	2167	EST01237	2275	EST01316	2385	EST01816
1951	EST01056	2063	EST01148	2169	EST01722	2276	EST01317	2386	EST01404
1952	EST01057	2065	EST01691	2170	EST01239	2277	EST01318	2387	EST01405
1955	EST01662	2066	EST01692	2171	EST01240	2278	EST01319		
1957	EST01059	2067	EST01693	2172	EST01241	2279	EST01320		
1958	EST01060	2069	EST01150	2175	EST01243	2280	EST01763		
1959	EST01061	2070	EST01151	2177	EST01245	2284	EST01323		
1963	EST01063	2072	EST01152	2178	EST01726	SEQ ID#	EST#		
1964	EST01064	2074	EST01698	2179	EST01246				
1966	EST01065	2075	EST01153	2180	EST01247	2285	EST01768		
1968	EST01067	2076	EST02702	2181	EST01248	2287	EST01770		
1969	EST01068	2077	EST01154	SEQ ID#	EST#	2288	EST01324		
1970	EST01666	2078	EST01155			2290	EST01772		
1971	EST01069	2079	EST01156	2182	EST01249	2291	EST01773		
1972	EST01070	2080	EST01157	2183	EST01250	2292	EST01326		
1975	EST01073	SEQ ID#	EST#	2185	EST01252	2293	EST01327		
1976	EST01074			2186	EST01253	2294	EST01328		
1978	EST01076	2081	EST01158	2187	EST01727	2295	EST01329		
1979	EST01077	2082	EST01159	2188	EST01254	2296	EST01330		
SEQ ID#	EST#	2083	EST01160	2190	EST01728	2298	EST01331		
		2084	EST01161	2191	EST01256	2299	EST01332		
1980	EST01078	2085	EST01162	2193	EST01258	2301	EST01334		
1981	EST01079	2086	EST01163	2194	EST01729	2304	EST01780		
1983	EST01081	2087	EST01164	2195	EST01259	2305	EST01336		
1984	EST01082	2088	EST01166	2197	EST01261	2306	EST01337		
1985	EST01083	2091	EST01168	2198	EST01730	2310	EST01341		
1986	EST01084	2093	EST01170	2199	EST01262	2311	EST01342		
1988	EST01085	2095	EST01701	2200	EST01731	2312	EST01343		
1989	EST01086	2096	EST01172	2201	EST01263	2313	EST01344		
1995	EST01092	2097	EST01173	2202	EST01732	2315	EST01346		
1996	EST01093	2098	EST01174	2205	EST01735	2316	EST01782		
1998	EST01095	2099	EST01175	2206	EST01736	2317	EST01347		
1999	EST01096	2103	EST01179	2208	EST01267	2318	EST01348		
2002	EST01099	2104	EST01180	2209	EST02717	2319	EST01349		
2003	EST01675	2107	EST01183	2210	EST01268	2321	EST01350		
2005	EST01100	2108	EST01184	2211	EST01269	2322	EST01351		
2006	EST01101	2109	EST01185	2213	EST01271	2323	EST01789		
2007	EST01102	2110	EST01186	2215	EST01273	2325	EST01353		
2009	EST01677	2111	EST01187	2218	EST01274	2327	EST01354		
2010	EST01104	2112	EST01188	2219	EST01275	2328	EST01355		
2011	EST01105	2113	EST01189	2220	EST01740	2329	EST01792		
2014	EST01108	2114	EST01190	2221	EST01741	2330	EST01793		
2015	EST01109	2115	EST01191	2222	EST01276	2331	EST01356		

SEQ ID#	EST#
2389	EST01407
2391	EST01415
2392	EST01416
2395	EST01419
2397	EST01421
2401	EST01424
2403	EST01425
2404	EST01426
2406	EST02713
2409	EST00273

-67-

EXAMPLE 10

Functional Groupings of ESTs and Corresponding Genes

By matching new human ESTs to known sequences from other species, the apparent function of the gene corresponding to
5   the EST can be ascertained. The data generated in Example 3 and 4 have been used to categorize 127 of the ESTs of the present invention, and their corresponding genes, into predicted functional groups. (These 127 are ESTs with database matches to sequences from other species for which a
10   function was known.) Two different grouping schemes have been used.

The first scheme separates the sequences into three broad categories: metabolic; regulatory; and structural. These groupings are set out in Table 10.
15   The second grouping scheme separates the sequences into 13 specific categories: cell surface proteins; developmental control; energy metabolism; kinases and phosphatases; oncogenes; other metabolism-related polypeptides; peptidases and peptidase inhibitors; receptors; structural and
20   cytoskeletal; signal transduction; transporters; transcription, translation, and subcellular localization; and transcription factors. These groupings are set out in Table 11.

-68-

Table 10: Thre -Class Functional Groupings of ESTs

SEQ ID	EST#	Group	Putative Identification
1834	EST01620	M	AMP deaminase, brain
97	EST00289	M	Aconitase
691	EST00675	M	Alcohol dehydrogenase
2092	EST01700	M	Anion exchanger homolog AE3
396	EST01443	M	CDPdiacylglycerol-serine O-phosphatidyltransfera
1956	EST01663	M	Ca2+-transporting ATPase 2
1039	EST02055	M	Calcium channel
2192	EST01257	M	Diacylglycerol kinase, lymphyocyte
1441	EST02477	M	Diamine acetyltransferase
2289	EST01325	M	Fatty acid synthase
310	EST00377	M	Fo ATPase beta subunit, mitochondrial
1667	EST00825	M	Gamma-aminobutyric acid transporter
1412	EST02446	M	Glutamate-aspartate carrier protein
1020	EST02034	M	Glutaminase
2326	EST01791	M	Inositol-1,4,5-trisphosphate 3-kinase
2173	EST01724	M	Lon protease
1427	EST02463	M	Long-chain-fatty-acid-CoA ligase
2226	EST01744	M	NAD(P)+ transhydrogenase (B-specific)
1566	EST02609	M	Neutrophil oxidase factor
1681	EST01573	M	Nucleoside diphosphate kinase
2254	EST01751	M	Phosphatidylinositol-4,5-bisphosphate phosphodie
93	EST00287	M	Processing enhancing protein
2297	EST01775	M	Prohormone cleavage enzyme
9	EST00376	M	Prolyl endopeptidase
1654	EST01572	M	Protochlorophyllide reductase
38	EST00374	M	RNA polymerase II 6th subunit (RPO26)
1715	EST01583	M	Ribosomal protein L18a
1856	EST01627	M	Ribosomal protein L1a
1974	EST01667	M	Ribosomal protein L3
301	EST00300	M	Ribosomal protein L30
22	EST00301	M	Ribosomal protein S10
2402	EST01826	M	Ribosomal protein S10
463	EST01459	M	Ribosomal protein YL10
2073	EST01697	M	Succinate dehydrogenase flavoprotein
2138	EST01715	M	Succinate dehydrogenase flavoprotein
1771	EST01601	M	Thiosulfate sulfurtransferase (rhodanese)
2121	EST01711	M	Valine-tRNA ligase
1726	EST01588	M	XPR2 alkaline extracellular protease
913	EST01913	M	Clathrin coat assembly protein AP50 homolog
1035	EST02051	M	J1 protein
969	EST01982	R	ADP-ribosylation factor 1
1126	EST02146	R	Calbindin D28
1910	EST01645	R	Calmodulin
485	EST01466	R	Calmodulin-dependent protein kinase, type II, be
2302	EST01779	R	Discs-large tumor suppressor
188	EST00256	R	Enhancer of split
1229	EST02258	R	KUP protein
993	EST02007	R	Kinase 5 protein
2282	EST01764	R	Lamin B receptor
SEQ ID	EST#	Group	Putative Identification
161	EST00247	R	MARCKS (myristoylated alanine-rich protein kinas
769	EST00734	R	MARCKS homolog
1386	EST02418	R	MARCKS homolog
227	EST00259	R	Notch/Xotch
952	EST01961	R	Notch/Xotch
1395	EST02429	R	Nuclear factor 1-like protein (NF1)
2353	EST01806	R	Prohibitin
1069	EST02087	R	Protein kinase C, zeta
1933	EST01650	R	Protein phosphatase 2A beta subunit

SEQ ID	EST#	Group	Putative Identification
202	EST00298	R	Protein-tyrosine phosphatase LRP
1478	EST02515	R	Rab5
1408	EST02442	R	Seven in absentia
300	EST00232	R	Transforming protein (dbl)
1147	EST02169	R	Tyrosine kinase
1348	EST02378	R	cAMP-dependent protein kinase inhibitor
1931	EST01041	R	cAMP-regulated phosphoprotein
1413	EST02447	R	cAMP-specific phosphodiesterase
37	EST00038	R	ras p21-like small GTP-binding protein (smg GDS)
102	EST00248	R	rho H12/ ARH12
299	EST00249	R	smg p25A GDP dissociation inhibitor
189	EST00282	R	trkB
1332	EST02362	R	GA binding protein, beta subunit
1277	EST02306	R	Bib protein
43	EST00371	R	Maternal G10 protein
1704	EST01580	R	Myeloid differentiation primary response gene My
346	EST01828	R	Otd homeotic protein
187	EST00152	R	Wilm's tumor-related protein
249	EST00275	R	Zinc Finger Proteins
413	EST01446	R	Zinc Finger Proteins
469	EST01460	R	Zinc Finger Proteins
833	EST01560	R	Zinc Finger Proteins
1230	EST02259	R	Zinc finger proteins
1496	EST02534	R	Zinc finger proteins
2324	EST01352	R	Zinc Finger Proteins
208	EST00250	S	60K filarial antigen
2320	EST01784	S	60K filarial antigen
251	EST00370	S	Actin, other
2146	EST01218	S	Actin, other
248	EST00271	S	Actinin, alpha
891	EST01891	S	Actinin, alpha
1500	EST02538	S	Actinin, alpha
132	EST00110	S	Agrin
1852	EST01625	S	Agrin
1965	EST01664	S	Amyloid A4
2068	EST01694	S	Amyloid A4
2408	EST00244	S	Amyloid A4
1880	EST01634	S	Axonal glycoprotein TAG-1
2004	EST01676	S	Cofilin
650	EST00642	S	Dilute (myosin heavy chain)
2217	EST01738	S	Gelation factor ABP-280
1885	EST01639	S	Histocompatibility antigen modifier 1
77	EST00257	S	Kinesin
SEQ ID	EST#	Group	Putative Identification
78	EST00258	S	Kinesin
2245	EST01748	S	Kinesin
313	EST00276	S	Lysosomal membrane glycoprotein i (LAMP-1)
223	EST00368	S	Microtubule-associated protein 1B
824	EST01865	S	Microtubule-associated protein 1B
2032	EST01683	S	Microtubule-associated protein 1B
2017	EST01678	S	Milk fat globule membrane protein
1567	EST02610	S	Neural cell adhesion molecule L1
506	EST01471	S	Neuraxin
2368	EST01389	S	Radial spoke protein 3
951	EST01960	S	Spectrin, beta
2089	EST01699	S	Sperm membrane protein
653	EST01512	S	Tubulin, alpha
311	EST00270	S	Tubulin, beta
594	EST01490	S	Tubulin, beta
757	EST01542	S	Tubulin, beta
1245	EST02274	S	Tubulin, beta
1589	EST02634	S	Tubulin, beta
1468	EST02505	S	Matrin 3

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1371   EST02402   S      Talin
1701   EST00853   S      Unc-104
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Group Key: M: Metabolic, R: Regulatory, S: Structural

Table 11: Thirteen-Class Functional Groupings of ESTs

SEQ ID	EST#	Group	Putative Identification
208	EST00250	CS	60K filarial antigen
2320	EST01784	CS	60K filarial antigen
1965	EST01664	CS	Amyloid A4
2068	EST01694	CS	Amyloid A4
2408	EST00244	CS	Amyloid A4
1880	EST01634	CS	Axonal glycoprotein TAG-1
1885	EST01639	CS	Histocompatibility antigen modifier 1
313	EST00276	CS	Lysosomal membrane glycoprotein 1 (LAMP-1)
2017	EST01678	CS	Milk fat globule membrane protein
1567	EST02610	CS	Neural cell adhesion molecule L1
2368	EST01389	CS	Radial spoke protein 3
2089	EST01699	CS	Sperm membrane protein
1277	EST02306	DC	Bib protein
188	EST00256	DC	Enhancer of split
43	EST00371	DC	Maternal G10 protein
1704	EST01580	DC	Myeloid differentiation primary response gene MyD1
227	EST00259	DC	Notch/Xotch
952	EST01961	DC	Notch/Xotch
346	EST01828	DC	Orthodentical homeotic protein
1408	EST02442	DC	Seven in absentia
97	EST00289	EM	Aconitase
310	EST00377	EM	Fo ATPase beta subunit, mitochondrial
485	EST01466	KP	Calmodulin-dependent protein kinase, type II, beta
993	EST02007	KP	Kinase 5 protein
1069	EST02087	KP	Protein kinase C, zeta
1933	EST01650	KP	Protein phosphatase 2A beta subunit
202	EST00298	KP	Protein-tyrosine phosphatase LRP
1348	EST02378	KP	cAMP-dependent protein kinase inhibitor
2302	EST01779	OG	Discs-large tumor suppressor
2353	EST01806	OG	Prohibitin
1478	EST02515	OG	Rab5
300	EST00232	OG	Transforming protein (dbl)
37	EST00038	OG	ras p21-like small GTP-binding protein (smg GDS)
102	EST00248	OG	rho H12/ ARH12
1834	EST01620	OM	AMP deaminase, brain
691	EST00675	OM	Alcohol dehydrogenase
396	EST01443	OM	CDPdiacylglycerol-serine O-phosphatidyltransferase
2192	EST01257	OM	Diacylglycerol kinase, lymphyocyte
1441	EST02477	OM	Diamine acetyltransferase
2289	EST01325	OM	Fatty acid synthase
1020	EST02034	OM	Glutaminase
2326	EST01791	OM	Inositol-1,4,5-trisphosphate 3-kinase
1427	EST02463	OM	Long-chain-fatty-acid-CoA ligase
2226	EST01744	OM	NAD(P)+ transhydrogenase (B-specific)
1566	EST02609	OM	Neutrophil oxidase factor
1681	EST01573	OM	Nucleoside diphosphate kinase

SEQ ID	EST#	Group	Putative Identification
2254	EST01751	OM	Phosphatidylinositol-4,5-bisphosphate phosphodiest
1654	EST01572	OM	Protochlorophyllide reductase
2073	EST01697	OM	Succinate dehydrogenase flavoprotein
2138	EST01715	OM	Succinate dehydrogenase flavoprotein
1771	EST01601	OM	Thiosulfate sulfurtransferase (rhodanese)
2173	EST01724	PI	Lon protease
2297	EST01775	PI	Prohormone cleavage enzyme
9	EST00376	PI	Prolyl endopeptidase
1726	EST01588	PI	XPR2 alkaline extracellular protease
1147	EST02169	PP	Tyrosine kinase
2282	EST01764	RT	Lamin B receptor
189	EST00282	RT	trkB
251	EST00370	SC	Actin, other
2146	EST01218	SC	Actin, other
248	EST00271	SC	Actinin, alpha
891	EST01891	SC	Actinin, alpha
1500	EST02538	SC	Actinin, alpha
132	EST00110	SC	Agrin
1852	EST01625	SC	Agrin
2004	EST01676	SC	Cofilin
650	EST00642	SC	Dilute (myosin heavy chain)
2217	EST01738	SC	Gelation factor ABP-280
77	EST00257	SC	Kinesin
78	EST00258	SC	Kinesin
2245	EST01748	SC	Kinesin
1468	EST02505	SC	Matrin 3
223	EST00368	SC	Microtubule-associated protein 1B
824	EST01865	SC	Microtubule-associated protein 1B
2032	EST01683	SC	Microtubule-associated protein 1B
506	EST01471	SC	Neuraxin
951	EST01960	SC	Spectrin, beta
1371	EST02402	SC	Talin
653	EST01512	SC	Tubulin, alpha
311	EST00270	SC	Tubulin, beta
594	EST01490	SC	Tubulin, beta
757	EST01542	SC	Tubulin, beta
1245	EST02274	SC	Tubulin, beta
1589	EST02634	SC	Tubulin, beta
1701	EST00853	SC	Unc-104
969	EST01982	ST	ADP-ribosylation factor 1
1126	EST02146	ST	Calbindin D28
1910	EST01645	ST	Calmodulin
161	EST00247	ST	MARCKS (myristoylated alanine-rich protein kinase
769	EST00734	ST	MARCKS homolog
1386	EST02418	ST	MARCKS homolog
1931	EST01041	ST	cAMP-regulated phosphoprotein
1413	EST02447	ST	cAMP-specific phosphodiesterase
299	EST00249	ST	smg p25A GDP dissociation inhibitor

SEQ ID	EST#	Group	Putative Identification
2092	EST01700	TP	Anion exchanger homolog AE3
1956	EST01663	TP	Ca2+-transporting ATPase 2
1039	EST02055	TP	Calcium channel
1667	EST00825	TP	Gamma-aminobutyric acid transporter
1412	EST02446	TP	Glutamate-aspartate carrier protein
913	EST01913	TT	Clathrin coat assembly protein AP50 homolog
1035	EST02051	TT	J1 protein
93	EST00287	TT	Processing enhancing protein
38	EST00374	TT	RNA polymerase II 6th subunit (RPO26)
1715	EST01583	TT	Ribosomal protein L18a
1856	EST01627	TT	Ribosomal protein L1a
1974	EST01667	TT	Ribosomal protein L3
301	EST00300	TT	Ribosomal protein L30
22	EST00301	TT	Ribosomal protein S10
2402	EST01826	TT	Ribosomal protein S10
463	EST01459	TT	Ribosomal protein YL10
2121	EST01711	TT	Valine-tRNA ligase
1332	EST02362	TX	GA binding protein, beta subunit
1229	EST02258	TX	KUP protein
1395	EST02429	TX	Nuclear factor 1-like protein (NF1)
187	EST00152	TX	Wilm's tumor-related protein
249	EST00275	TX	Zinc Finger Proteins
413	EST01446	TX	Zinc Finger Proteins
469	EST01460	TX	Zinc Finger Proteins
833	EST01560	TX	Zinc Finger Proteins
1230	EST02259	TX	Zinc finger proteins
1496	EST02534	TX	Zinc finger proteins
2324	EST01352	TX	Zinc Finger Proteins

Group Key: CS: Cell Surface, DC: Developmental Control, EM: Energy Metabolism, KP: Kinases and Phosphatases, OG: Oncogenes, OM: Other Metabolism, PI, Peptidases and Peptidase Inhibitors, RT: Receptors, SC: Structural and Cytoskeletal, ST: Signal Transduction, TP: Transporters, TT: Transcription, Translation, and Subcellular Localization, TX: Transcription Factors.

-74-

EXAMPLE 11

cDNA Libraries Generated From Specific Genomic DNA
by Exon Expression & Amplification

Exon amplification was used to express potential exons from genomic DNA in a recombinant vector that contains some of the signals necessary for splicing. If an exon is present in the proper orientation in the vector, that exon will be spliced in a mammalian cell and will become part of the mRNA of that cell. The exon splice-product can be purified from other mRNA in the cell by conversion of the mRNA to cDNA and selective amplification of the recombinant splice-product cDNAs. Cosmid DNA from human chromosome 19q13.3 was digested with BamHI or BamHI/BglII restriction enzymes. The fragments generated were collected and size specifically cloned into an expression vector (Buckler, et al. **Proc. Nat'l. Acad. Sci. USA,** 88:4005-4009 (1991)). After transfection by electroporation of these constructs into COS cells, RNA transcripts were generated using the SV40 early promoter and a polyadenylation signal derived from SV40 both present in the expression vector. When a fragment of genomic DNA contains an entire exon with flanking intron sequence in the sense orientation, the exon should be retained in the mature poly(A)+ cytoplasmic RNA. Therefore, the mRNA was used as template for cDNA synthesis using reverse transcriptase and vector-priming. Subsequently, the cDNAs were amplified by vector-priming using PCR. A fraction of this first PCR product was reamplified using internal vector-primers containing terminal cloning sites. These products were end-repaired with T4 DNA polymerase, digested with the appropriate restriction enzymes, gel purified and cloned into pBluescript vectors. The constructs were transfected into XL1-Blue competent cells and plated on LB/X-gal/IPTG/ampicillin plates. White colonies were selected and expanded to prepare DNA templates as described in Example 2.

-75-

When multiple cosmids or YAC clones were used as the source
DNA, a pool of specific expressed exons was obtained as a
cDNA library. The EST/cDNAs sequenced from this specific
library are disclosed herein as SEQ ID NOS: 2412-2417.

EXAMPLE 12

PCR Amplification from Predicted Exons

Computational analyses can be applied to genomic DNA
sequences to predict protein coding regions. The coding
region prediction program CRM (E. Uberbacher and R. Mural,
Proc. Natl. Acad. Sci. USA 88:11261-5 (1991)) finds open
reading frames and classifies them according to their
probability of being coding regions. These regions are
subsequently examined using the GM program (C. Fields and C.
Soderlund, **Comp. Applic. Biosci. 6**: 263, 1990), which
predicts intron-exon structure. PCR primers are then
designed to amplify the predicted exons and used to test
human cDNA libraries (for example, fetal brain or placental
libraries) for the presence of these putative exons using a
PCR assay.

This strategy has been successfully applied in two large
scale genomic sequencing projects, the Huntington's locus of
human chromosome 4p16.3 (McCombie, et al., submitted) and
human chromosome locus 19q13.3 (Martin-Gallardo, et al.,
submitted). Sequences from eleven predicted exons from
chromosome 4 were present in tested cDNA libraries,
indicating that this region has at least two and probably
three expressed genes. In one case, the method resulted in
an amplification product which spanned two predicted exons.
(SEQ ID NO: 2411.) When sequenced, this PCR product
indicated the presence of the two exons from which the
primers were initially chosen, as well as an intervening exon
which was also predicted by the CRM program, but not the
intervening genomic sequences. In a similar fashion, the
presence of the two predicted genes in the chromosome 19

-76-

sequence was confirmed by sequencing PCR products. SEQ ID NO 2410, includes a partial exon of one of these genes.

EXAMPLE 13

Complete Sequence of EST Clone Inserts

There are a number of methods known to those with skill in the art of molecular biology, to obtain sequence information from the cDNAs corresponding to the EST sequences. Procedures for these methods are provided in Basic Methods in Molecular Biology (David et al. supra). One way to acquire more information about the cDNA from which an EST was derived is to sequence the remainder of the cDNA clone. The complete sequence of the inserts of four EST clones (representing SEQ ID NOs 188, 189, 223, and 227) was determined using Exonuclease III deletions. Briefly, EST clones were digested with the restriction enzymes SalI and KpnI or PstI and BamHI (for deletions from the Forward primer and Reverse primer ends of the insert, respectively). The KpnI and PstI enzymes leave 3' sticky ends following digestion, which Exonuclease III is unable to bind. This results in unidirectional deletions into the cDNA insert leaving the vector sequence undisturbed. After addition of Exonuclease III to the Forward and Reverse deletion reactions, aliquots of the reaction were removed at defined time intervals and the reaction was stopped to prevent further deletion. S1 nuclease and Klenow DNA polymerase were added to create blunt ended fragments suitable for ligation.

Samples for each time point was purified by electrophoresis through an agarose gel and religated. Two to four representative clones from each time point in each direction were sequenced to give between 200 and 400 base pairs of sequence data. Careful selection of deletion conditions and time points allow a deletion series of approximately 100-200 base pairs difference in length at each consecutive time point. Sequence fragments were reassembled into a redundant contiguous sequence using the INHERIT

-77-

software from Applied Biosystems, Inc. (Foster City, CA). In
this way, the complete insert from these four cDNA clones was
sequenced on both strands to an average redundancy between
three and four (each base was sequenced between three and
5   four times, on average). Those complete insert sequences are
disclosed herein as SEQ ID 2418, 2419, 2420, and 2421,
corresponding to original ESTs with SEQ ID 223, 189, 227, and
188, respectively.

EXAMPLE 14
10

Determining Reading Frame, Orientation, Coding Regions:
ESTs and Complete cDNA Sequences

        Once the complete cDNA sequence has been determined in
15   accordance with Example 13, the reading frame, orientation,
and coding regions are determined by computer techniques.
(The complete coding region is considered to be the largest
open reading frame from a methionine to a stop codon.)
        Specifically, the CRM program on the GRAIL server is
20   used as explained in Example 9 to determine probable coding
regions. This information is supplemented by location of
start and stop codons. Where possible, the results of the
CRM analysis are validated by comparison of the cDNA sequence
to known sequences using database matching, in accordance
25   with Examples 3 and 4. If a match of 50% (or even less) is
found in any particular reading frame and orientation, this
serves to verify corresponding CRM results. Alternatively,
database matches can be used to determine reading frame and
orientation without use of the CRM program. Of course, if
30   the cDNA is derived from a directional library, the probable
orientation is already known.

EXAMPLE   15

35   ### Preparation of PCR Primers and Amplification of DNA

        The EST sequences and the corresponding cDNA sequences
and genomic sequences may be used, in accordance with the

-78-

present invention, to prepare PCR primers for a variety of
applications.   The PCR primers are preferably at least 15
bases, and more preferably at least 18 bases in length.   The
procedure of Example 5 is repeated using the desired EST, or
5   using the corresponding cDNA or genomic DNA sequence from
Example 13.   It is preferred that the primer pairs have
approximately the same G/C ratio, so that melting
temperatures are approximately the same.   When screening
cDNA, introns are of no concern; however, when screening
10   genomic DNA, primers should be selected to avoid reading
across introns, which usually are too large to amplify.   The
PCR primers and amplified DNA of this Example find use in the
Examples that follow.

15   EXAMPLE 16

                        Forensic Matching by DNA Sequencing

20   In one exemplary method, DNA samples are isolated from
forensic specimens of, for example, hair, semen, blood or
skin cells by conventional methods.   A panel of PCR primers
derived from a number of the sequences of Example 1, 2, 11,
12 and/or 13 is then utilized in accordance with Example 12
25   to obtain DNA of approximately 100-200 bases in length from
the forensic specimen.   Corresponding sequences are obtained
from a suspect.   Each of these identification DNAs is then
sequenced, and a simple database comparison determines the
differences, if any, between the sequences from the suspect
30   and those from the sample.   Statistically significant
differences between the suspect's DNA sequences and those
from the sample conclusively prove a lack of identity.   This
lack of identity can be proven, for example, with only one
sequence.   Identity, on the other hand, should be
35   demonstrated with a large number of sequences, all matching.
Preferably, a minimum of 50 statistically identical sequences

-79-

of 100 bases in length are used to prove identity between the
suspect and the sample.

EXAMPLE 17

Positive Identification by DNA Sequencing

The technique outlined in the previous example may also
be used on a larger scale to provide a unique fingerprint-
type identification of any individual. In this technique,
primers are prepared from a large number of sequences from
Examples 1, 2, 11, 12 and/or 13. Preferably, 20 to 50
different primers are used. These primers are used to obtain
a corresponding number of PCR-generated DNA segments from the
individual in question in accordance with Example 15. Each
of these DNA segments is sequenced, using the methods set
forth in Example 1. The database of sequences generated
through this procedure uniquely identifies the individual
from whom the sequences were obtained. The same panel of
primers may then be used at any later time to absolutely
correlate tissue or other biological specimen with that
individual.

EXAMPLE 18

Southern Blot Forensic Identification

The procedure of Example 17 is repeated to obtain a
panel of from 10 to 2000 amplified sequences from an
individual and a specimen. This PCR-generated DNA is then
digested with one or a combination of, preferably, four base
specific restriction enzymes. Such enzymes are commercially
available and known to those of skill in the art. After
digestion, the resultant gene fragments are size separated in
multiple duplicate wells on an agarose gel and transferred to
nitrocellulose using Southern blotting techniques well known
to those with skill in the art. For a review of Southern

-80-

blotting see Davis et al. (<u>Basic Methods in Molecular Biology</u>, 1986, Elsevier Press. pp 62-65).

A panel of ESTs or complete cDNA sequences from Examples 1, 2, and/or 13, or fragments thereof of at least 15 bases, are radioactively or colorimetrically labeled using end-labeled oligonucleotides derived from the ESTs, nick translated sequences or the like using methods known in the art and hybridized to the Southern blot using techniques known in the art (Davis et al., <u>supra</u>). Preferably, at least 5 to 10 of these labeled probes are used, and more preferably at least about 20 or 30 are used to provide a unique pattern. The resultant bands appearing from the hybridization of a large sample of ESTs will be a unique identifier. Since the restriction enzyme cleavage will be different for every individual, the band pattern on the Southern blot will also be unique. Increasing the number of EST probes will provide a statistically higher level of confidence in the identification since there will be an increased number of sets of bands used for identification.

EXAMPLE 19

Dot Blot Identification Procedure

Another technique for identifying individuals using the sequences disclosed herein utilizes a dot blot hybridization technique.

Genomic DNA is isolated from nuclei of subject to be identified. Oligonucleotide probes of approximately 30 bp in length were synthesized that correspond to sequences from the ESTs. The probes are used to hybridize to the genomic DNA through conditions known to those in the art. The oligonucleotides are end labelled with P^{32} using polynucleotide kinase (Pharmacia). Dot Blots are created by spotting about 50 ng cDNA of at least 10, preferably at least 50 sequences corresponding to a variety of the Sequence ID

-81-

NOs provided in Table 7 onto nitrocellulose or the like using a vacuum dot blot manifold (BioRad, Richmond California). The nitrocellulose filter containing the EST clone sequences is baked or UV linked to the filter, prehybridized and hybridized with labeled probe using techniques known in the art (Davis et al. supra). The ^{32}P labeled DNA fragments are sequentially hybridized with successively stringent conditions to detect minimal differences between the 30 bp sequence and the DNA. Tetramethylammonium chloride is useful for identifying clones containing small numbers of nucleotide mismatches (Wood et al., **Proc. Natl. Acad. Sci. USA 82(6):1585-1588** (1985) which is hereby incorporated by reference. A unique pattern of dots distinguishes one individual from another individuals.

EXAMPLE 20

Alternative "Fingerprint" Identification Technique

EST sequences and the corresponding complete cDNA sequences can be used to create a unique fingerprint for an individual. Thus pools of EST sequences can be used in forensics, paternity suits or the like to differentiate one individual from another.

Entire EST sequences can be used; similarly oligonucleotides can be prepared from EST sequences. In this example, 20-mer oligonucleotides are prepared from 200 EST sequences using commercially available oligonucleotide services such as Oligos Etc., Wilsonville, OR. Patient cell samples are processed for DNA using techniques well known to those with skill in the art. The nucleic acid is digested with restriction enzymes EcoRI and XbaI. Following digestion, samples are applied to wells for electrophoresis. The procedure, as known in the art, may be modified to accommodate polyacrylamide electrophoresis, however in this example, samples containing 5 ug of DNA are loaded into wells

-82-

and separated on 0.8% agarose gels. The gels are transferred
using Southern blotting techniques onto nitrocellulose.

10 ng of each of the oligos are pooled and end-labeled
with P^{32}. The nitrocellulose is prehybridized with blocking
5   solution and hybridized with the labeled probes. Following
hybridization and washing, the nitrocellulose filter is
exposed to X-Omat AR X-ray film. The resulting hybridization
pattern will be unique for each individual.

It is additionally contemplated within this example that
10   the representative number of EST sequences can be varied for
additional accuracy or clarity.

EXAMPLE 21

15   <u>Identification of genes associated with hereditary diseases</u>

This example illustrates an approach useful for the
association of EST sequences with particular phenotypic
characteristics. In this example, a particular EST is used
20   as a test probe to associate that EST with a particular
phenotypic characteristic.

An EST clone corresponding to EST01643, (SEQ ID NO 1894)
maps to a gene rich region of chromosome 6. EST clone
HHCMH89, from which EST01643 was derived, was mapped to
25   chromosome 6p21 by Dr. Julie Korenberg of UCLA/Cedar Sinai
Hospital using FISH. A search of Mendelian Inheritance in
Man (supra) revealed 6p21 to be a very gene rich region
containing several known genes and several diseases for which
genes have not been identified. The cDNA encoded by EST
30   clone HHCMH89 thus becomes an immediate candidate for each of
these genetic diseases.

Cells from patients with these diseases are isolated and
expanded in culture. PCR primers from the EST sequences are
used to screen genomic DNA and RNA or cDNA from the patients.
35   ESTs that are not amplified in the patients can be positively
associated with a particular disease by further analysis.

-83-

EXAMPLE 22

Identification of a gene associated with
Angelman's disease

5

Angelman's disease (AD) is characterized by deletions on the long arm of chromosome 15 (15q11q13) (Williams et al. **Am. J. Med. Genet.** 32:339-345 (1989) hereby incorporated by reference).   The   symptoms   of   the   disease   include

10   developmental delay, seizures, inappropriate laughter and ataxic movements. These symptoms suggest that the disorder is a neurologic deficiency.   This prophetic example illustrates how ESTs, preferably obtained from a cDNA library from human brain, may be used in identifying the defective

15   gene or genes associated with Angelman's Disease.   (The example is based on analogous work with genomic DNA, rather than cDNA and ESTs, in identifying the genetic defect associated with Angelman's Disease.)   This example also illustrates how EST sequences may generally be used for

20   identifying gene sequences associated with an inherited disease that is mapped to a chromosome location.

ESTs are screened using techniques described in Example 5 and Example 7 to identify those ESTs that localize to the long arm of chromosome 15 and preferably localize to

25   chromosome 15 bands 15q11q13 from normal patients. ESTs that bind to the long arm of chromosome 15 are hybridized to chromosome 15 from AD patients.   These studies are preferrably performed using either fluorescence in situ hybridization or using somatic cell hybrids that contain

30   fragments from the long arm of chromosome 15 from AD patients. Those chromosome 15-specific ESTs that do not map to chromosome 15 from AD patients are useful as markers for Angelman's Disease and can be incorporated into diagnostics for genetic screening.   These ESTs are associated with

35   chromosome deletions present in Angelman's disease. Identification of the gene associated with these AD negative ESTs and an analysis of the polypeptides encoded by the genes

-84-

from normal patients is essential for providing gene or other therapies for AD patients.

Genetic diseases are not always accompanied by gene deletions. Therefore, it is also important to use the ESTs that bind to bands 15q11q13 from AD patients as tools to identify the polymorphisms present within the disease population. Restriction fragment length polymorphism (RFLP) analysis can be performed on patient cells from AD disease or from somatic cell hybrids created using the long arm of chromosome 15. For a review of RFLP techniques see Donis-Keller et al. (Cell 51:319-337 (1987) hereby incorporated by reference). DNA is isolated from the somatic cell lines or from cells from AD patients. The DNA is digested with one or more restriction enzymes according to techniques of Donis-Keller et al. The resulting fragments are separated by gel electrophoresis, denatured, transferred to nitrocellulose and hybridized with the selected radio-labeled ESTs that localize to the region of interest. The autoradiographic pattern is compared both to a number of AD patients and to normal patients. Common patterns of EST hybridization in AD patients that are not present in normal patients indicates that the genes associated with these ESTs are candidate genes affected by AD.

cDNA libraries are prepared from the somatic cell hybrids from AD patients. Libraries are prepared using Lambda Zap II Library Kits (Stratagene, La Jolla, California) or other commercially available library kits. The ESTs of interest are used as probes to identify those bacterial colonies carrying genes corresponding to the EST probes. Positive clones are sequenced and the sequences are compared to homologous gene sequences derived from normal patients.

Alterations, including deletions and substitutions, within gene sequences, associated with bands 15q11q13, are thus positively identified and associated with AD disease. Wagstaff et al. were able to identify deletions and substitutions in sequences encoding the GABA$_A$ receptor

-85-

protein subunit from patients with Angelman's disease (**Am. J. Hum. Genet. 49**:330-337, (1991)). It is likely that other genes will additionally be associated with the disease.

5   **EXAMPLE 23**

Preparation and Use of Antisense Oligonucleotides

Antisense RNA molecules are known to be useful for
10   regulating translation within the cell.   Antisense RNA molecules can be produced from EST sequences or from the corresponding gene sequences. These antisense molecules can be used as diagnostic probes to determine whether or not a particular gene is expressed in a cell.   Similarly, the
15   antisense molecules can be used as a therapeutic to regulate gene expression once the EST is associated with a particular disease (see Example 22).

The antisense molecules are obtained from a nucleotide sequence by reversing the orientation of the coding region
20   with regard to the promoter.   Thus, the antisense RNA is complementary to the corresponding mRNA.   For a review of antisense design see Green et al., **Ann. Rev. Biochem. 55**:569-597 (1986), which is hereby incorporated by reference. The antisense sequences can contain modified sugar phosphate
25   backbones to increase stability and make them less sensitive to RNase activity.   Examples of the modifications are described by Rossi et al., **Pharmacol. Ther. 50**(2):245-254, (1991).

Antisense molecules are introduced into cells that
30   express the gene corresponding to the EST of interest in culture.   In a preferred application of this invention, the polypeptide encoded by the gene is first identified, so that the effectiveness of antisense inhibition on translation can be monitored using techniques that include but are not
35   limited to antibody-mediated tests such as RIAs and ELISA, functional assays, or radiolabelling. The antisense molecule is introduced into the cells by diffusion or by transfection

procedures known in the art. The molecules are introduced onto cell samples at a number of different concentrations preferably between $1\text{x}10^{-10}$M to $1\text{x}10^{-4}$M. Once the minimum concentration that can adequately control translation is identified, the optimized dose is translated into a dosage suitable for use in vivo. For example, an inhibiting concentration in culture of $1\text{x}10^{-7}$ translates into a dose of approximately 0.6 mg/kg bodyweight. Levels of oligonucleotide approaching 100 mg/kg bodyweight or higher may be possible after testing the toxicity of the oligonucleotide in laboratory animals.

The antisense can be introduced into the body as a bare or naked oligonucleotide, oligonucleotide encapsulated in lipid, oligonucleotide sequence encapsidated by viral protein, or as oligonucleotide contained in an expression vector such as those described in Example 25. The antisense oligonucleotide is preferably introduced into the vertebrate by injection. It is additionally contemplated that cells from the vertebrate are removed, treated with the antisense oligonucleotide, and reintroduced into the vertebrate. It is further contemplated that the antisense oligonucleotide sequence is incorporated into a ribozyme sequence to enable the antisense to bind and cleave its target. For technical applications of ribozyme and antisense oligonucleotides see Rossi et al.

EXAMPLE 24

<u>Preparation and use of Triple Helix Probes</u>

Triple helix oligonucleotides are used to inhibit transcription from a genome. They are particularly useful for studying alterations in cell activity as it is associated with a particular gene. The EST sequences or complete sequences of the present invention or, more preferably, a portion of those sequences, can be used to inhibit gene

-87-

expression in individuals having diseases associated with a particular gene. Similarly, a portion of the EST or corresponding gene sequence can be used to study the effect of inhibiting transcription of a particular gene within a
5   cell. Traditionally, homopurine sequences were considered the most useful. However, homopyrimidine sequences can also inhibit gene expression. Thus, both types of sequences from either the EST or from the gene corresponding to the EST are contemplated within the scope of this invention.
10 Homopyrimidine oligonucleotides bind to the major groove at homopurine:homopyrimidine sequences. As an example, 10-mer to 20-mer homopyrimidine sequences from the ESTs can be used to inhibit expression from homopurine sequences. SEQ ID NOs such as 282, 888, 719, 670, 994, 240, 873 and 761 contain
15 homopyrimidine 15-mers. Moreover the natural (beta) anomers of the oligonucleotide units can be replaced with alpha anomers to render the oligonucleotide more resistant to nucleases. Further, an intercalating agent such as ethidium bromide, or the like, can be attached to the 3' end of the
20 alpha oligonucleotide to stabilize the triple helix. For information on the generation of oligonucleotides suitable for triple helix formation see Griffin et al. (**Science** **245**:967-971 (1989), which is hereby incorporated by this reference).
25   The oligonucleotides may be prepared on an oligonucleotide synthesizer or they may be purchased commercially from a company specializing in custom oligonucleotide synthesis. The sequences are introduced into cells in culture using techniques known in the art that
30 include but are not limited to calcium phosphate precipitation, DEAE-Dextran, electroporation, liposome-mediated transfection or native uptake. Treated cells are monitored for altered cell function. These cell functions are predicted based upon the homologies of the gene
35 corresponding to the EST from which the oligonucleotide was derived, with known genes sequences that have been associated

-88-

with a particular function. The cell functions can also be predicted based on the presence of abnormal physiologies within cells derived from individuals with a particular inherited disease, particularly when the EST is associated
5   with the disease using techniques described in Example 22.

EXAMPLE 25

Gene expression from DNA Sequences Corresponding to ESTs
10

A gene sequence of the present invention coding for all or part of a human gene product is introduced into an expression vector using conventional technology. (Techniques to transfer cloned sequences into expression vectors that
15   direct protein translation in mammalian, yeast, insect or bacterial expression systems are well known in the art.) Commercially available vectors and expression systems are available from a variety of suppliers including Stratagene (La Jolla, California), Promega (Madison, Wisconsin), and
20   Invitrogen (San Diego, California). If desired, to enhance expression and facilitate proper protein folding, the codon context and codon pairing of the sequence may be optimized for the particular expression organism, as explained by Hatfield, et al., U.S. Patent No. 5,082,767, incorporated
25   herein by this reference.
The following is provided as one exemplary method to generate polypeptide from cloned cDNA sequences. The cDNA from the EST of interest is sequenced to identify the methionine initiation codon for the gene and the poly A
30   sequence. If the cDNA lacks a poly A sequence, this sequence can be added to the construct by, for example, splicing out the Poly A sequence from pSG5 (Stratagene) using BglI and SalI restriction endonuclease enzymes and incorporating it into the mammalian expression vector pXT1 (Stratagene). pXT1
35   contains the LTRs and a portion of the gag gene from Moloney Murine Leukemia Virus. The position of the LTRs in the construct allow efficient stable transfection. The vector

-89-

includes the Herpes Simplex Thymidine Kinase promoter and the
selectable neomycin gene. The cDNA is obtained by PCR from
the bacterial vector using oligonucleotide primers
complementary to the cDNA and containing restriction
5   endonuclease sequences for Pst I incorporated into the
5'primer and BglII at the 5' end of the corresponding cDNA 3'
primer, taking care to ensure that the cDNA is positioned
inframe with the poly A sequence. The purified fragment
obtained from the resulting PCR reaction is digested with
10   PstI, blunt ended with an exonuclease, digested with Bgl II,
purified and ligated to pXT1, now containing a poly A
sequence and digested BglII.

The ligated product is transfected into mouse NIH 3T3
cells using Lipofectin (Life Technologies, Inc., Grand
15   Island, New York) under conditions outlined in the product
specification. Positive transfectants are selected after
growing the transfected cells in 600ug/ml G418 (Sigma, St.
Louis, Missouri). The protein is preferrably released into
the supernatant. However if the protein has membrane binding
20   domains, the protein may additionally be retained within the
cell or expression may be restricted to the cell surface.

Since it may be necessary to purify and locate the
transfected product, synthetic 15-mer peptides synthesized
from the predicted cDNA sequence are injected into mice to
25   generate antibody to the polypeptide encoded by the cDNA.

If antibody production is not possible, the cDNA
sequence is additionally incorporated into eukaryotic
expression vectors and expressed as a chimeric with, for
example, β-globin. Antibody to β-globin is used to purify
30   the chimeric. Corresponding protease cleavage sites
engineered between the β-globin gene and the cDNA are then
used to separate the two polypeptide fragments from one
another after translation. One useful expression vector for
generating β-globin chimerics is pSG5 (Stratagene). This
35   vector encodes rabbit β-globin. Intron II of the rabbit β-
globin gene facilitates splicing of the expressed transcript,

-90-

and the polyadenylation signal incorporated into the construct increases the level of expression. These techniques as described are well known to those skilled in the art of molecular biology. Standard methods are published in methods texts such as Davis et al. and many of the methods are available from the technical assistance representatives from Stratagene, Life Technologies, Inc., or Promega. Polypeptide may additionally be produced from either construct using in vitro translation systems such as In vitro Express™ Translation Kit (Stratagene).

Example 26

Production of an Antibody to a Human Protein

Substantially pure protein or polypeptide is isolated from the transfected or transformed cells as described in Example 25. Concentration of protein in the final preparation is adjusted, for example, by concentration on an Amicon filter device, to the level of a few micrograms/ml. Monoclonal or polyclonal antibody to the protein can then be prepared as follows:

A.   **Monoclonal Antibody Production by Hybridoma Fusion**

Monoclonal antibody to epitopes of any of the peptides identified and isolated as described can be prepared from murine hybridomas according to the classical method of Kohler, G. and Milstein, C., **Nature** 256:495 (1975) or derivative methods thereof. Briefly, a mouse is repetitively inoculated with a few micrograms of the selected protein over a period of a few weeks. The mouse is then sacrificed, and the antibody producing cells of the spleen isolated. The spleen cells are fused by means of polyethylene glycol with mouse myeloma cells, and the excess unfused cells destroyed by growth of the system on selective media comprising aminopterin (HAT media). The successfully fused cells are diluted and aliquots of the dilution placed in wells of a

-91-

microtiter plate where growth of the culture is continued. Antibody-producing clones are identified by detection of antibody in the supernatant fluid of the wells by immunoassay procedures, such as Elisa, as originally described by Engvall, E., **Meth. Enzymol. 70**:419 (1980), and derivative methods thereof. Selected positive clones can be expanded and their monoclonal antibody product harvested for use. Detailed procedures for monoclonal antibody production are described in Davis, L. et al. **Basic Methods in Molecular Biology** Elsevier, New York. Section 21-2.

B.   **Polyclonal Antibody Production by Immunization**

Polyclonal antiserum containing antibodies to heterogenous epitopes of a single protein can be prepared by immunizing suitable animals with the expressed protein described above, which can be unmodified or modified to enhance immunogenicity. Effective polyclonal antibody production is affected by many factors related both to the antigen and the host species. For example, small molecules tend to be less immunogenic than other and may require the use of carriers and adjuvant. Also, host animals vary in response to site of inoculations and dose, with both inadequate or excessive doses of antigen resulting in low titer antisera. Small doses (ng level) of antigen administered at multiple intradermal sites appears to be most reliable. An effective immunization protocol for rabbits can be found in Vaitukaitis, J. et al. **J. Clin. Endocrinol. Metab. 33**:988-991 (1971).

Booster injections can be given at regular intervals, and antiserum harvested when antibody titer thereof, as determined semi-quantitatively, for example, by double immunodiffusion in agar against known concentrations of the antigen, begins to fall. See, for example, Ouchterlony, O. et al., Chap. 19 in: **Handbook of Experimental Immunology** D. Wier (ed) Blackwell (1973). Plateau concentration of antibody is usually in the range of 0.1 to 0.2 mg/ml of serum (about 12 μM). Affinity of the antisera for the antigen is

-92-

determined by preparing competitive binding curves, as described, for example, by Fisher, D., Chap. 42 in: **Manual of Clinical Immunology**, 2d Ed. (Rose and Friedman, eds.) Amer. Soc. For Microbiol., Washington, D.C. (1980).

Antibody preparations prepared according to either protocol are useful in quantitative immunoassays which determine concentrations of antigen-bearing substances in biological samples; they are also used semi-quantitatively or qualitatively to identify the presence of antigen in a biological sample.

EXAMPLE 27
Identification of Tissue Types or Cell Species by Means of Labeled Tissue Specific Antibodies

Identification of specific tissues is accomplished by the visualization of tissue specific antigens by means of antibody preparations according to Example 26 which are conjugated, directly or indirectly to a detectable marker. Selected labeled antibody species bind to their specific antigen binding partner in tissue sections, cell suspensions, or in extracts of soluble proteins from a tissue sample to provide a pattern for qualitative or semi-qualitative interpretation.

Antisera for these procedures must have a potency exceeding that of the native preparation, and for that reason, antibodies are concentrated to a mg/ml level by isolation of the gamma globulin fraction, for example, by ion-exchange chromatography or by ammonium sulfate fractionation. Also, to provide the most specific antisera, unwanted antibodies, for example to common proteins, must be removed from the gamma globulin fraction, for example by means of insoluble immunoabsorbents, before the antibodies are labeled with the marker. Either monoclonal or heterologous antisera is suitable for either procedure.

-93-

A.   **Immunohistochemical Techniques**

Purified, high-titer antibodies, prepared as described above, are conjugated to a detectable marker, as described, for example, by Fudenberg, H., Chap. 26 in: **Basic & Clinical Immunology**, 3rd Ed. Lange, Los Altos, California (1980) or Rose, N. et al., Chap. 12 in: **Methods in Immunodiagnosis**, 2d Ed. John Wiley & Sons, New York (1980).

A fluorescent marker, either fluorescein or rhodamine, is preferred, but antibodies can also be labeled with an enzyme that supports a color producing reaction with a substrate, such as horseradish peroxidase. Markers can be added to tissue-bound antibody in a second step, as described below. Alternatively, the specific antitissue antibodies can be labeled with ferritin or other electron dense particles, and localization of the ferritin coupled antigen-antibody complexes achieved by means of an electron microscope. In yet another approach, the antibodies are radiolabeled, with, for example ^{125}I, and detected by overlaying the antibody treated preparation with photographic emulsion.

Preparations to carry out the procedures can comprise monoclonal or polyclonal antibodies to a single gene copy or protein, identified as specific to a tissue type, for example, brain tissue, or antibody preparations to several antigenically distinct tissue specific antigens can be used in panels, independently or in mixtures, as required.

Tissue sections and cell suspensions are prepared for immunohistochemical examination according to common histological techniques. Multiple cryostat sections (about 4 μm, unfixed) of the unknown tissue and known control, are mounted and each slide covered with different dilutions of the antibody preparation. Sections of known and unknown tissues should also be treated with preparations to provide a positive control, a negative control, for example, pre-immune sera, and a control for non-specific staining, for example, buffer.

-94-

Treated sections are incubated in a humid chamber for 30 min at room temperature, rinsed, then washed in buffer for 30-45 min. Excess fluid is blotted away, and the marker developed.

If the tissue specific antibody was not labeled in the first incubation, it can be labeled at this time in a second antibody-antibody reaction, for example, by adding fluorescein- or enzyme-conjugated antibody against the immunoglobulin class of the antiserum-producing species, for example, fluorescein labeled antibody to mouse IgG. Such labeled sera are commercially available.

The antigen found in the tissues by the above procedure can be quantified by measuring the intensity of color or fluorescence on the tissue section, and calibrating that signal using appropriate standards.

B.   Identification of Tissue Specific Soluble Proteins

The visualization of tissue specific proteins and identification of unknown tissues from that procedure is carried out using the labeled antibody reagents and detection strategy as described for immunohistochemistry; however the sample is prepared according to an electrophoretic technique to distribute the proteins extracted from the tissue in an orderly array on the basis of molecular weight for detection.

A tissue sample is homogenized using a Virtis apparatus; cell suspensions are disrupted by Dounce homogenization or osmotic lysis, using detergents in either case as required to disrupt cell membranes, as is the practice in the art. Insoluble cell components such as nuclei, microsomes, and membrane fragments are removed by ultracentrifugation, and the soluble protein-containing fraction concentrated if necessary and reserved for analysis.

A sample of the soluble protein solution is resolved into individual protein species by conventional SDS polyacrylamide electrophoresis as described, for example, by Davis, L. et al., Section 19-2 in: **Basic Methods in Molecular Biology** (P. Leder, ed), Elsevier, New York (1986), using a

-95-

range of amounts of polyacrylamide in a set of gels to resolve the entire molecular weight range of proteins to be detected in the sample. A size marker is run in parallel for purposes of estimating molecular weights of the constituent
5   proteins. Sample size for analysis is a convenient volume of from 5-50 μl, and containing from about 1 to 100 μg protein. An aliquot of each of the resolved proteins is transferred by blotting to a nitrocellulose filter paper, a process that maintains the pattern of resolution. Multiple copies are
10   prepared. The procedure, known as Western Blot Analysis, is well described in Davis, L. et al., (above) Section 19-3. One set of nitrocellulose blots is stained with Coomassie Blue dye to visualize the entire set of proteins for comparison with the antibody bound proteins. The remaining
15   nitrocellulose filters are then incubated with a solution of one or more specific antisera to tissue specific proteins prepared as described in Example 26. In this procedure, as in procedure A above, appropriate positive and negative sample and reagent controls are run.
20   In either procedure A or B, a detectable label can be attached to the primary tissue antigen-primary antibody complex according to various strategies and permutations thereof. In a straightforward approach, the primary specific antibody can be labeled; alternatively, the unlabeled complex
25   can be bound by a labeled secondary anti-IgG antibody. In other approaches, either the primary or secondary antibody is conjugated to a biotin molecule, which can, in a subsequent step, bind an avidin conjugated marker. According to yet another strategy, enzyme labeled or radioactive protein A,
30   which has the property of binding to any IgG, is bound in a final step to either the primary or secondary antibody.
            The visualization of tissue specific antigen binding at levels above those seen in control tissues to one or more tissue specific antibodies, prepared from the gene sequences
35   identified from EST sequences, can identify tissues of unknown origin, for example, forensic samples, or

-96-

differentiated tumor tissue that has metastasized to foreign
bodily sites.

The entire contents of all references cit d above are
hereby incorporated by reference.

5   While the present invention has been described in some
detail for purposes of clarity and understanding, one skill d
in the art will appreciate that various changes in form and
detail can be made without departing from the true scope of
the invention.

10

VII. Correlation of EST and Clone Identifiers

The EST sequences of the present invention are
identified herein by SEQ ID NO, and are identified in the
GenBank database by a different number, are identified in the
15   inventors' lab (and upcoming publications) by EST number, and
clones have been submitted to the American Type Culture
Collection (Rockville, Maryland USA) under clone names.
Table 12 cross references those different numbers for the
ESTs from cDNA, SEQ ID NOS 1-2409.

20   Certain Sequence ID NOS are excluded from some claims
based on their homology to known non-human sequences (S e
Table 2).

Table 12. SEQ ID WO Cross References

SEQ ID	EST#	GB#	Clone
1	EST00007	M61959	HFBA01
2	EST00009	M61953	HFBA05
3	EST00010	M61961	HFBA07
4	EST00011	M61962	HFBA08
5	EST00012	M61963	HFBA10
6	EST00013	M61964	HFBA11
7	EST00014	M61965	HFBA11
8	EST00234	M62172	HFBA26
9	EST00376	M61966	HFBA20
10	EST00016	M61967	HFBA23
11	EST00018	M61968	HFBA36
12	EST00274	M62212	HFBA51
13	EST00055	M62194	HFBA65
14	EST00019	M61969	HFBA66
15	EST00020	M61970	HFBA69
16	EST00021	M61971	HFBA71
17	EST00022	M61972	HFBA77
18	EST00373	M62299	HFBA84
19	EST00023	M61973	HFBA86
20	EST00024	M61974	HFBA87
21	EST00025	M61975	HFBA89
22	EST00301	M62239	HFBA90
23	EST00026	M61976	HHCA08
24	EST00027	M61977	HHCA05
25	EST00028	M61978	HHCA08
26	EST00310	M62245	HHCA02
27	EST00029	M61979	HHCA08
28	EST00030	M61980	HHCA09
29	EST00031	M61981	HHCA104
30	EST00032	M61982	HHCA10
31	EST00233	M62171	HHCA11
32	EST00034	M61984	HHCA13
33	EST00035	M61985	HHCA14
34	EST00036	M61986	HHCA18
35	EST00037	M61987	HHCA21
36	EST00038	M61988	HHCA23
37	EST00374	M62300	HHCA53
38	EST00039	M61989	HHCA53
39	EST00040	M61990	HHCA54
40	EST00041	M61991	HHCA55
41	EST00371	M62297	HHCA57
42	EST00042	M61992	HHCA68
43	EST00364	M62290	HHCA69
44	EST00044	M61994	HHCA71
45	EST00046	M61995	HHCA73
46	EST00291	M62229	HHCB04
47	EST00097	M61996	HHCB08
48	EST00048	M61997	HHCB08
49	EST00049	M61998	HHCB16
50	EST00052	M61999	HHCB35
51	EST00054	M62000	HHCB51
52	EST00055	M62001	HHCB52
53	EST00056	M62002	HHCB53
54	EST00057	M62003	HHCB55
55	EST00057	M61996	HHCB96
56	EST00058	M62004	HHCC04
57	EST00059	M62005	HHCC05
58	EST00061	M62006	HHCC07
59	EST00062	M62007	HHCC09
60	EST00290	M62228	HHCC09
61	EST00064	M62008	HHCC09
62	EST00064	M62008	HHCC10
63	EST00065	M62009	HHCC10

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64	EST00066	M62010	HHCC13
66	EST00067	M62011	HHCC18
67	EST00351	M62280	HHCC21
68	EST00068	M62012	HHCC22
69	EST00360	M62287	HHCC23
70	EST00070	M62014	HHCC27
71	EST00071	M62015	HHCC29
72	EST00072	M62016	HHCC31
73	EST00073	M62017	HHCC37
74	EST00074	M62018	HHCC40
75	EST00075	M62019	HHCC42
76	EST00257	M62196	HHCC53
77	EST00258	M62197	HHCC53
78	EST00076	M62020	HHCC64
79	EST00077	M62021	HHCC67
80	EST00315	M62248	HHCC70
81	EST00078	M62022	HHCC72
82	EST00079	M62023	HHCC74
83	EST00080	M62024	HHCC76
84	EST00081	M62025	HHCC77
85	EST00082	M62026	HHCC78
86	EST00083	M62027	HHCC80
87	EST00084	M62028	HHCD01
88	EST00085	M62029	HHCD02
89	EST00302	M62240	HHCD03
90	EST00086	M62030	HHCD05
91	EST00087	M62031	HHCD06
92	EST00287	M62225	HHCD08
93	EST00353	M62281	HHCD10
94	EST00088	M62032	HHCD12
95	EST00089	M62033	HHCD14
96	EST00289	M62227	HHCD17
97	EST00260	M62199	HHCD21
98	EST00316	M62249	HHCD30
99	EST00090	M62034	HHCE05
100	EST00091	M62035	HHCE06
101	EST00248	M62187	HHCE07
102	EST00317	M62250	HHCE08
103	EST00354	M62282	HHCE10
104	EST00092	M62291	HHCE12
105	EST00365	M62036	HHCE13
106	EST00093	M62037	HHCE15
107	EST00094	M62038	HHCE17
108	EST00095	M62039	HHCE20
109	EST00096	M62040	HHCG01
110	EST00281	M62218	HHCG03
111	EST00318	M62251	HHCG10
112	EST00097	M62041	HHCG14
113	EST00098	M62042	HHCG18
114	EST00248	M62043	HHCG25
115	EST00099	M62044	HHCG29
116	EST00100	M62252	HHCG31
117	EST00101	M62045	HHCG33
118	EST00102	M62046	HHCG36
119	EST00319	M62047	HHCG37
120	EST00097	M62048	HHCG38
121	EST00104	M62048	HHCG40
122	EST00105	M62049	HHCG41
123	EST00106	M62050	HHCG44
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126	EST00109	M62053	
127	EST00320	M62253	

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129	EST00321	M62254	HHCG60
130	EST00355	M62283	HHCG61
131	EST00322	M62255	HHCG63
132	EST00110	M62054	HHCG65
133	EST00111	M62055	HHCG66
134	EST00375	M62186	HHCG67
135	EST00231	M62056	HHCG68
136	EST00113	M62057	HHCG70
137	EST00272	M62210	HHCG72
138	EST00114	M62058	HHCG85
139	EST00116	M62059	HHCH01
140	EST00117	M62060	HHCH09
141	EST00118	M62061	HHCH11
142	EST00323	M62256	HHCH15
143	EST00119	M62062	HHCH36
144	EST00120	M62063	HHCH41
145	EST00121	M62064	HHCH49
146	EST00122	M62065	HHCH50
147	EST00292	M62230	HHCH51
148	EST00236	M62174	HHCH52
149	EST00123	M62066	HHCH53
150	EST00124	M62067	HHCH57
151	EST00125	M62068	HHCH59
152	EST00126	M62069	HHCH60
153	EST00127	M62070	HHCH62
154	EST00128	M62071	HHCH63
155	EST00129	M62072	HHCH64
156	EST00130	M62073	HHCH66
157	EST00131	M62074	HHCH68
158	EST00132	M62075	HHCH71
159	EST00325	M62257	HHCH72
160	EST00326	M62258	HHCH73
161	EST00247	M62185	HHCH76
162	EST00134	M62076	HHCH77
163	EST00135	M62077	HHCH79
164	EST00248	M62078	HHCH83
165	EST00136	M62079	HHCH84
166	EST00137	M62080	HHCH87
167	EST00138	M62081	HHCH91
168	EST00140	M62082	HHCH96
169	EST00141	M62083	HHCI05
170	EST00295	M62233	HHCI06
171	EST00327	M62259	HHCI10
172	EST00142	M62084	HHCI17
173	EST00296	M62234	HHCI26
174	EST00144	M62085	HHCI27
175	EST00145	M62086	HHCI33
176	EST00328	M62260	HHCI36
177	EST00294	M62232	HHCI42
178	EST00135	M62237	HHCI47
179	EST00144	M62237	HHCI54
180	EST00234	M62237	HHCI55
181	EST00147	M62088	

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184	EST00149	M62090	HHCI62
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186	EST00151	M62092	HHCI75
187	EST00152	M62093	HHCI79
188	EST00256	M62195	HHCI84
189	EST00282	M62094	HHCI85
190	EST00153	M62095	HHCI86
191	EST00154	M62096	HHCI88
192	EST00155	M62097	HHCI90
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197	EST00160	M62102	HHCJ07
198	EST00161	M62214	HHCJ09
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200	EST00162	M62236	HHCJ15
201	EST00163	M62173	HHCJ17
202	EST00298	M62107	HHCJ29
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206	EST00167	M62263	HHCJ36
207	EST00168	M62110	HHCJ37
208	EST00169	M62111	HHCJ42
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216	EST00372	M62118	HHCJ61
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218	EST00356	M62284	HHCJ73
219	EST00178	M62119	HHCJ74
220	EST00333	M62264	HHCJ78
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224	EST00334	M62129	HHCJ84
225	EST00181	M62265	HHCJ86
226	EST00183	M62123	HHCJ89
227	EST00182	M62125	HHCJ92
228	EST00184	M62124	HHCJ93
229	EST00185	M62126	HHCJ96
230	EST00186	M62127	HHCSA26
231	EST00187	M62128	HHCSA28
232	EST00188	M62129	HHCSA29
233	EST00189	M62130	HHCSA30
234	EST00335	M62266	HHCSA31
235	EST00190	M62131	HHCSA49
236	EST00191	M62132	HHCSA53
237	EST00192	M62133	HHCSA59
238	EST00193	M62134	HHCSA64
239	EST00347	M62275	HHCSA70
240	EST00194	M62135	HHCSA75
241	EST00279	M62217	HHCSA77
242	EST00271	M62209	HHCSA79
243			HHCSA81
244			HHCSA82
245			HHCSA85

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250	EST00197	M62136	HHCSA87
251	EST00370	M62296	HHCSA92
252	EST00198	M62137	HHCSA95
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254	EST00200	M62139	HHCSB07
255	EST00201	M62140	HHCSB08
256	EST00345	M62267	HHCSB09
257	EST00337	M62268	HHCSB12
258	EST00346	M62276	HHCSB13
259	EST00202	M62141	HHCSB19
260	EST00357	M62285	HHCSB20
261	EST00338	M62269	HHCSB22
262	EST00339	M62270	HHCSB23
263	EST00203	M62142	HHCSB25
264	EST00204	M62143	HHCSB27
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267	EST00297	M62295	HHCSB31
268	EST00369	M62231	HHCSB32
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270	EST00293	M62220	HHCSB37
271	EST00208	M62147	HHCSB43
272	EST00268	M62206	HHCSB44
273	EST00209	M62148	HHCSB45
274	EST00211	M62149	HHCSB48
275	EST00212	M62150	HHCSB50
276	EST00342	M62272	HHCSB53
277	EST00213	M62151	HHCSB55
278	EST00343	M62273	HHCSB56
279	EST00214	M62152	HHCSB57
280	EST00344	M62274	HHCSB58
281	EST00215	M62153	HHCSB62
282	EST00216	M62154	HHCSB68
283	EST00296	M62224	HHCSB69
284	EST00217	M62155	HHCSB70
285	EST00218	M62156	HHCSB73
286	EST00219	M62157	HHCSB77
287	EST00221	M62158	HHCSB78
288	EST00221	M62159	HHCSB79
289	EST00222	M62160	HHCSB81
290	EST00223	M62161	HHCSB83
291	EST00225	M62162	HHCSB84
292	EST00226	M62163	HHCSB91
293	EST00228	M62164	HHCSB92
294	EST00230	M62168	HTCA08
295	EST00231	M62169	HTCA27
296	EST00249	M62188	HTCA27
297	EST00232	M62170	HTCA36
298	EST00300	M62238	HTCB03
299	EST00303	M62241	HTCB05
300	EST00348	M62277	HFBA22
301	EST00307	M62242	HFBA45
302	EST00308	M62243	HFBA78
303	EST00309	M62244	HHCA05
304	EST00312	M62247	HHCA06
305	EST00314	M62115	HHCA57
306	EST00377		HHCA63
307	EST00174		HHCJ67
308	EST00270	M62208	HHCC05
309	EST00276	M62215	HFBA18
310	EST00008	M61960	HHCJ13
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312			HEFBA01

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320	EST00382	M78234	HEFBA09
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322	EST00384	M78236	HEFBA11
323	EST00385	M78237	HEFBA13
324	EST01827	M78238	HEFBA17
325	EST00386	M85319	HEFBA18
326	EST00387	M78239	HEFBA18
327	EST00388	M78240	HEFBA21
328	EST00389	M78241	HEFBA23
329	EST00390	M78242	HEFBB04
330	EST00391	M78243	HEFBB04
331	EST00392	M78244	HEFBB09
332	EST00393	M78245	HEFBB21
333	EST00394	M78246	HEFBB30
334	EST00395	M78247	HEFBC02
335	EST00396	M78248	HEFBC06
336	EST00397	M78249	HEFBC11
337	EST00398	M78250	HEFBC17
338	EST00399	M78251	HEFBC21
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340	EST00402	M78253	HEFBD03
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364	EST00420	M78272	HFBBA23
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368	EST00423	M78275	HFBBA28
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371	EST00426	M78278	
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373	EST01832	M85324	

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377	EST00430	M78282	HFBBA34
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386	EST00437	M78289	HFBBA48
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391	EST00441	M78294	HFBBA54
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393	EST00443	M78295	HFBBA57
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416	EST00464	M78315	HFBBA87
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421	EST01447	M77863	HFBBA93
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425	EST00471	M78322	HFBCA04
426	EST01451	M77865	HFBCA06
427	EST00472	M78323	HFBCA07
428	EST01452	M77867	HFBCA09
429	EST00473	M78324	HFBCA11
430	EST00474	M78325	HFBCA12
431	EST00475	M77868	HFBCA13
432	EST00476	M78326	HFBCA15
433	EST00477	M78327	HFBCA16
434	EST00478	M78328	HFBCA17
435	EST00479	M78329	HFBCA18
436	EST00480	M78330	HFBCA21
437	EST00478	M78331	
438	EST01837	M78331	
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442	EST01456	M77872	HFBCA26
443	EST00482	M78334	HFBCA27
444	EST00483	M78335	HFBCA28
445	EST00484	M78336	HFBCA31
446	EST00485	M78337	HFBCA32
447	EST00486	M78338	HFBCA34
448	EST00487	M78339	HFBCA35
449	EST00488	M78340	HFBCA36
450	EST00489	M78341	HFBCA37
451	EST00490	M78342	HFBCA38
452	EST00491	M78343	HFBCA39
453	EST00492	M78344	HFBCA40
454	EST00493	M78345	HFBCA42
455	EST00494	M78346	HFBCA43
456	EST01835	M85326	HFBCA44
457	EST00495	M78347	HFBCA45
458	EST00496	M78348	HFBCA46
459	EST00497	M77873	HFBCA47
460	EST01457	M78349	HFBCA49
461	EST01836	M85327	HFBCA51
462	EST00498	M78350	HFBCA52
463	EST00499	M78351	HFBCA54
464	EST01459	M78352	HFBCA56
465	EST00500	M78353	HFBCA58
466	EST00501	M78354	HFBCA59
467	EST00502	M78355	HFBCA63
468	EST00503	M77876	HFBCA64
469	EST01460	M78356	HFBCA65
470	EST00504	M78357	HFBCA70
471	EST00505	M78358	HFBCA71
472	EST00506	M78359	HFBCA72
473	EST00507	M78360	HFBCA73
474	EST00508	M78361	HFBCA74
475	EST01463	M78362	HFBCA76
476	EST00509	M78363	HFBCA77
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479	EST01464	M78364	HFBCA82
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489	EST00520	M78372	HFBCA93
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491	EST00522	M78374	HFBCA95
492	EST00523	M78375	HFBCA96
493	EST00524	M78376	HFBCB01
494	EST00525	M78377	HFBCB02
495	EST00326	M77883	HFBCB03
496	EST01467	M78378	HFBCB05
497	EST01468	M77884	HFBCB06
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499	EST02715		HFBCB09
500	EST00527	M77885	HFBCB10
501	EST01469	M78380	HFBCB12
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503	EST00528	M77887	
504	EST00529	M78381	
505	EST01837		
506	EST01471		

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509	EST01472	M77888	HFBCB15
510	EST00532	M78384	HFBCB16
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512	EST00534	M78386	HFBCB20
513	EST00535	M78387	HFBCB21
514	EST00536	M78388	HFBCB22
515	EST00537	M78389	HFBCB23
516	EST00538	M78390	HFBCB24
517	EST00539	M78391	HFBCB28
518	EST00540	M78392	HFBCB31
519	EST00541	M78393	HFBCB33
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521	EST01474	M77890	HFBCB35
522	EST00543	M85329	HFBCB36
523	EST01838	M78396	HFBCB38
524	EST00544	M78397	HFBCB40
525	EST00545	M78398	HFBCB42
526	EST00546	M78399	HFBCB43
527	EST00547	M78400	HFBCB46
528	EST00548	M78401	HFBCB48
529	EST00549	M78400	HFBCB49
530	EST01477	M78402	HFBCB51
531	EST00551	M78403	HFBCB52
532	EST00552	M78404	HFBCB53
533	EST00553	M01478	HFBCB54
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535	EST00553	M78405	HFBCB56
536	EST01479	M01479	HFBCB57
537	EST00554	M78406	HFBCB59
538	EST00555	M78407	HFBCB60
539	EST00556	M78408	HFBCB61
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541	EST01480	M78410	HFBCB63
542	EST00558	M77896	HFBCB64
543	EST00559	M78411	HFBCB65
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545	EST01481	M78412	HFBCB67
546	EST01839	M01839	HFBCB69
547	EST00561	M78413	HFBCB71
548	EST00562	M85330	HFBCB73
549	EST00563	M78414	HFBCB74
550	EST00564	M78415	HFBCB75
551	EST01482	M78416	HFBCB76
552	EST00565	M77898	HFBCB77
553	EST00566	M78417	HFBCB79
554	EST01483	M78418	HFBCB80
555	EST00567	M78419	HFBCB81
556	EST00568	M77899	HFBCB82
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562	EST00572	M78423	HFBCB91
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571	EST00581	M78433	HFBCC04
572	EST00582	M78434	HFBCC06
573	EST00583	M78435	HFBCC09
574	EST00584	M78436	HFBCC11
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576	EST00586	M78438	HFBCC14
577	EST00587	M78439	HFBCC15
578	EST00588	M78440	HFBCC16
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586	EST00596	M78448	HFBCC26
587	EST01488	M77904	HFBCC27
588	EST00597	M78449	HFBCC28
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591	EST01489	M77905	HFBCC31
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596	EST00602	M78454	HFBCC36
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603	EST00606	M78458	HFBCC46
604	EST01494	M77910	HFBCC47
605	EST00607	M78459	HFBCC50
606	EST00608	M78460	HFBCC51
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611	EST00612	M78464	HFBCC57
612	EST00613	M78465	HFBCC63
613	EST00614	M78466	HFBCC65
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615	EST01842	M85332	HFBCC67
616	EST00616	M78468	HFBCC69
617	EST01497	M77913	HFBCC70
618	EST01498	M77914	HFBCC71
619	EST00619	M78469	HFBCC72
620	EST01499	M77915	HFBCC73
621	EST00620	M78471	HFBCC75
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623	EST01500	M77916	HFBCC80
624	EST01844	M85334	HFBCC81
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635	EST00629	M78481	HFBCC93
636	EST01507	M77923	HFBCC94
637	EST00630	M78482	HFBCC95
638	EST00631	M78483	HFBCD03
639	EST01509	M77925	HFBCD04
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641	EST01509	M77925	HFBCD06
642	EST00633	M78485	HFBCD07
643	EST00634	M78486	HFBCD08
644	EST00635	M78487	HFBCD10
645	EST00636	M78488	HFBCD11
646	EST00637	M78489	HFBCD12
647	EST00638	M78490	HFBCD16
648	EST00639	M78491	HFBCD17
649	EST00640	M78492	HFBCD18
650	EST00641	M78493	HFBCD19
651	EST00642	M78494	HFBCD20
652	EST01510	M77926	HFBCD21
653	EST01512	M77928	HFBCD26
654	EST00644	M78496	HFBCD27
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656	EST01513	M77929	HFBCD29
657	EST00646	M78498	HFBCD31
658	EST00647	M78499	HFBCD32
659	EST00648	M78500	HFBCD33
660	EST00649	M78501	HFBCD34
661	EST00650	M78502	HFBCD35
662	EST01512	M78503	HFBCD36
663	EST00652	M78504	HFBCD37
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666	EST00655	M77930	HFBCD40
667	EST00655	M78507	HFBCD41
668	EST00656	M78508	HFBCD42
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672	EST00660	M78512	HFBCD46
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675	EST00662	M78513	HFBCD51
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678	EST01517	M77933	HFBCD61
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680	EST00664	M78516	HFBCD63
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683	EST00667	M78519	HFBCD68
684	EST00668	M78520	HFBCD69
685	EST00669	M78521	HFBCD70
686	EST00670	M78522	HFBCD74
687	EST00671	M78523	HFBCD76
688	EST00672	M78524	HFBCD79
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691	EST00675	M78527	HFBCD82
692	EST00676	M78528	HFBCD83
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697	EST00680	M78532	HFBCD88
698	EST00681	M78533	HFBCD89
699	EST00682	M78534	HFBCD90
700	EST00683	M78535	HFBCD91
701	EST01522	M77938	HFBCD92
702	EST00684	M78536	HFBCD94
703	EST00685	M78537	HFBCD95
704	EST00686	M78538	HFBCD96
705	EST00687	M78539	HFBCE01
706	EST00688	M78540	HFBCE02
707	EST01847	M85335	HFBCE03
708	EST00689	M78541	HFBCE05
709	EST00690	M78542	HFBCE06
710	EST00691	M78543	HFBCE07
711	EST00692	M78544	HFBCE08
712	EST00693	M78545	HFBCE12
713	EST00694	M78546	HFBCE13
714	EST00695	M78547	HFBCE14
715	EST01523	M77939	HFBCE15
716	EST01524	M77940	HFBCE16
717	EST01525	M77941	HFBCE17
718	EST00696	M78548	HFBCE18
719	EST00697	M78549	HFBCE19
720	EST01526	M77942	HFBCE21
721	EST01527	M77943	HFBCE22
722	EST01528	M77944	HFBCE23
723	EST00698	M78550	HFBCE24
724	EST01529	M77945	HFBCE26
725	EST00700	M78551	HFBCE27
726	EST00701	M78552	HFBCE29
727	EST00702	M78553	HFBCE30
728	EST00703	M78554	HFBCE31
729	EST00704	M78555	HFBCE32
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731	EST00706	M78557	HFBCE35
732	EST00707	M78558	HFBCE36
733	EST00708	M78559	HFBCE37
734	EST00709	M78560	HFBCE41
735	EST01532	M77948	HFBCE42
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738	EST01534	M77950	HFBCE49
739	EST01535	M77951	HFBCE50
740	EST00712	M78564	HFBCE52
741	EST00713	M78565	HFBCE54
742	EST01537	M77953	HFBCE55
743	EST00715	M78567	HFBCE56
744	EST00716	M78568	HFBCE58
745	EST00717	M78569	HFBCE59
746	EST01850	M85337	HFBCE61
747	EST01539	M77955	HFBCE63
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749	EST00720	M78572	HFBCE65

SEQ ID	EST#	GB#	Clone
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755	EST00723	M78575	HFBCE69
756	EST01541	M77957	HFBCE72
757	EST01542	M77958	HFBCE73
758	EST00724	M78576	HFBCE74
759	EST00725	M78577	HFBCE77
760	EST00726	M78578	HFBCE78
761	EST01544	M77960	HFBCE80
762	EST00727	M78579	HFBCE82
763	EST00728	M78580	HFBCE83
764	EST00729	M78581	HFBCE84
765	EST00730	M78582	HFBCE85
766	EST00731	M78583	HFBCE86
767	EST00732	M78584	HFBCE87
768	EST00733	M78585	HFBCE88
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771	EST01546	M77962	HFBCE93
772	EST00736	M78588	HFBCE94
773	EST01547	M77963	HFBCE95
774	EST01548	M77964	HFBCE96
775	EST00737	M78589	HFBCF01
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777	EST00739	M78591	HFBCF07
778	EST00740	M78592	HFBCF09
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780	EST01549	M77965	HFBCF13
781	EST01550	M77966	HFBCF14
782	EST01551	M77967	HFBCF16
783	EST01552	M77968	HFBCF23
784	EST01852	M85338	HFBCF41
785	EST01553	M77969	HFBCF42
786	EST00743	M78594	HFBCF43
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790	EST01554	M77970	HFBCF47
791	EST00747	M78598	HFBCF48
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794	EST01555	M77971	HFBCF51
795	EST00749	M78601	HFBCF52
796	EST00750	M78601	HFBCF53
797	EST00751	M78602	HFBCF54
798	EST00752	M78603	HFBCF56
799	EST01853	M85339	HFBCF57
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804	EST00757	M78608	HFBCF68
805	EST00758	M78609	HFBCF73
806	EST00759	M78610	HFBCF74
807	EST00760	M78611	HFBCF75
808	EST00761	M78612	HFBCF79
809	EST00762	M78613	HFBCF81
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811	EST00764	M78615	HFBCF85
812	EST01854	M85340	HFBCF86
813	EST00765	M78616	HFBCF87
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815	EST01855	M85341	HFBCF90
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SEQ ID	EST#	GB#	Clone
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821	EST01862	M85348	HFBCG09
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823	EST01864	M85350	HFBCG11
824	EST01865	M85351	HFBCG12
825	EST01866	M85352	HFBCG13
826	EST01867	M85353	HFBCG15
827	EST01558	M77974	HFBCG17
828	EST00767	M78619	HFBCG19
829	EST00768	M78620	HFBCG20
830	EST01559	M77975	HFBCG21
831	EST00769	M78621	HFBCG23
832	EST00770	M78622	HFBCG24
833	EST01560	M77976	HFBCG25
834	EST00771	M78623	HFBCG26
835	EST00772	M78624	HFBCG27
836	EST00773	M78625	HFBCG29
837	EST00774	M78626	HFBCG30
838	EST01561	M77977	HFBCG31
839	EST01562	M77978	HFBCG32
840	EST00775	M78627	HFBCG33
841	EST00776	M78628	HFBCG34
842	EST01563	M77979	HFBCG35
843	EST01564	M77980	HFBCG37
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845	EST00777	M78629	HFBCG40
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849	EST01567	M77983	HFBCG47
850	EST00780	M78632	HFBCG49
851	EST00781	M78633	HFBCG51
852	EST00782	M78634	HFBCG57
853	EST00783	M78635	HFBCG61
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855	EST00785	M78637	HFBCG69
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857	EST01868	M85354	HFBCG73
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861	EST01871	M85357	HFBCG78
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868	EST01876	M85362	HFBCG88
869	EST00788	M78640	HFBCG89
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872	EST00791	M78643	HFBCG93
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874	EST00793	M78645	HFBCG96
875	EST00794	M78646	HFBCH01
876	EST00795	M78647	HFBCH02
877	EST01877	M85363	HFBCH03
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880	EST01880	M85366	HFBCH07
881	EST01881	M85367	HFBCH08
882	EST01882	M85368	HFBCH10
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SEQ ID	EST#	GB#	Clone
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888	EST01888	M85374	HFBCH16
889	EST01889	M85375	HFBCH17
890	EST01890	M85376	HFBCH18
891	EST01891	M85377	HFBCH20
892	EST01892	M85378	HFBCH22
893	EST01893	M85379	HFBCH23
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895	EST01895	M85381	HFBCH31
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1387	ESTO2419	M85895	HFBCP54
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1456	ESTO2492	M85968	HFBCT12
1457	ESTO2493	M85969	HFBCU02
1458	ESTO2495	M85970	HFBCU04
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1464	ESTO2501	M85976	HFBCV02
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1520	EST02561	M86036	HFBCY53
1521	EST02562	M86037	HFBCY54
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1523	EST02564	M86039	HFBC201
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1526	EST02567	M86042	HFBC207
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1531	EST02572	M86047	HFBC212
1532	EST02573	M86048	HFBDE01
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1547	EST02589	M86064	HFBDJ01
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1559	EST02603	M86079	
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1582	EST02626	M86100	HFBDJ40
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1586	EST02631	M86105	HFBDJ45
1587	EST02632	M86106	HFBDJ46
1588	EST02633	M86107	HFBDJ47
1589	EST02634	M86108	HFBDJ49
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1647	EST00806	M78658	HHICMA45
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1649	EST00808	M78660	HHICMA49
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2209	EST01267		HHCPL84
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2347	EST01370	M79223	HHCPR02
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2373	EST01393	M79248	HHCPS18
2374	EST01394	M79249	HHCPS29
2375	EST01815	M79250	HHCPS30
2376	EST01395	M79251	HHCPS35
2377	EST01396	M79253	HHCPS36
2378	EST01397	M79254	HHCPS39
2379	EST01398	M79255	HHCPS40
2380	EST01399	M79256	HHCPS43
2381	EST01400	M78223	HHCPS44
2382	EST01401	M79257	HHCPS51
2383	EST01402	M79258	HHCPS56
2384	EST01816	M79259	HHCPS60
2385	EST01403	M86177	HHCPS62
2386	EST01404	M79260	HHCPS63
2387	EST01405		HHCPS71
2388	EST01406		HHCPS78
2389	EST01407		HHCPS95
2390	EST02712		HRBAA06
2391	EST01415		

SEQ ID	EST#	GB#	Clone
2259	EST01304	M79156	HHCPN52
2260	EST01305	M79157	HHCPN54
2261	EST01755	M78162	HHCPN60
2262	EST01306	M79158	HHCPN63
2263	EST01307	M79159	HHCPN64
2264	EST01308	M79160	HHCPN65
2265	EST01309	M79161	HHCPN67
2266	EST01310	M79162	HHCPN70
2267	EST01756	M78163	HHCPN76
2268	EST01311	M79163	HHCPN92
2269	EST01312	M79164	HHCPN96
2270	EST01313	M79165	HHCPO01
2271	EST01314	M79166	HHCPO03
2272	EST01762	M78169	HHCPO05
2273	EST01315	M79167	HHCPO06
2274	EST02704	M86172	HHCPO07
2275	EST01316	M79168	HHCPO08
2276	EST01317	M79169	HHCPO19
2277	EST01318	M79170	HHCPO21
2278	EST01319	M79171	HHCPO22
2279	EST01320	M79173	HHCPO24
2280	EST01763	M78170	HHCPO25
2281	EST01321	M79173	HHCPO45
2282	EST01322	M79171	HHCPO51
2283	EST01323	M79174	HHCPO57
2284	EST01768	M79175	HHCPO64
2285	EST01770	M78177	HHCPO65
2286	EST01324	M79176	HHCPO72
2287	EST01325	M79177	HHCPO74
2288	EST01773	M78179	HHCPO75
2289	EST01772	M78180	HHCPO76
2290	EST01326	M79178	HHCPO81
2291	EST01327	M79178	HHCPO82
2292	EST01328	M79180	HHCPO83
2293	EST01329	M79181	HHCPO87
2294	EST01330	M79182	HHCPO88
2295	EST01775	M78183	HHCPO92
2296	EST01331	M79183	HHCPP03
2297	EST01332	M79184	HHCPP04
2298	EST01333	M79185	HHCPP05
2299	EST01334	M79186	HHCPP06
2300	EST01335	M79187	HHCPP07
2301	EST01779	M78186	HHCPP12
2302	EST01780	M78187	HHCPP13
2303	EST01336	M79188	HHCPP15
2304	EST01337	M79189	HHCPP21
2305	EST02705	M86173	HHCPP22
2306	EST01338	M79021	HHCPP37
2307	EST01339	M79191	HHCPP39
2308	EST01340	M79192	HHCPP41
2309	EST01341	M79193	HHCPP45
2310	EST01342	M79194	HHCPP47
2311	EST01343	M79195	HHCPP51
2312	EST01782	M78189	HHCPP55
2313	EST01344	M79196	HHCPP56
2314	EST01345	M79197	HHCPP64
2315	EST01346	M79198	HHCPP66
2316	EST02705	M86173	HHCPP69
2317	EST01347	M79199	HHCPP76
2318	EST01348	M78191	HHCPP77
2319	EST01349	M79201	HHCPP91
2320	EST01784	M79202	HHCPP96
2321	EST01350	M79203	HHCPP05
2322	EST01351	M78196	
2323	EST01352	M79204	
2324	EST01789	M79205	
2325	EST01353		

-110-

NOTE REGARDING SEQUENCE LISTINGS: The listings of SEQ ID
NOS: 1-2421 are in numerical order. However, an occasional
number (for example, SEQ ID NO: 44) is not found in this
list. In all, 9 SEQ ID NOS are not used. Nevertheless, the
5   convention "1-2421" is used, for example, to refer to all the
SEQ ID NOS in the following list, while "1-315" is used, for
example, to refer to all the listed sequences falling between
SEQ ID NO 1 and SEQ ID NO 315.

-111-

SEQUENCE LISTING

(1) GENERAL INFORMATION:

    (i) APPLICANT: Venter, J. Craig

                 Adams, Mark D.

                 Moreno, Ruben F.

   (ii) TITLE OF INVENTION: Sequences Characteristic of Human Gene

                        Transcription Product

  (iii) NUMBER OF SEQUENCES: 2412 (1-2421, with 9 SEQ ID NOS unused.)

   (iv) CORRESPONDENCE ADDRESS:

      (A) ADDRESSEE: Knobbe, Martens, Olson, and Bear

      (B) STREET: 620 Newport Center Dr. Sixteenth Floor

      (C) CITY: Newport Beach

      (D) STATE: CA

      (E) COUNTRY: USA

      (F) ZIP: 92660

    (v) COMPUTER READABLE FORM:

      (A) MEDIUM TYPE: Floppy disk

      (B) COMPUTER: IBM PC compatible

      (C) OPERATING SYSTEM: PC-DOS/MS-DOS

      (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

   (vi) CURRENT APPLICATION DATA:

      (A) APPLICATION NUMBER: 07/837,195

      (B) FILING DATE: 12-FEB-1992

  (vii) PRIOR APPLICATION DATA:

      (A) APPLICATION NUMBER: US 07/716,831

      (B) FILING DATE: 20-JUN-1991

 (viii) ATTORNEY/AGENT INFORMATION:

      (A) NAME: Israelsen, Ned A.

      (B) REGISTRATION NUMBER: 29,655

      (C) REFERENCE/DOCKET NUMBER: NIH004.004CP1

   (ix) TELECOMMUNICATION INFORMATION:

      (A) TELEPHONE: 619-235-8550

      (B) TELEFAX: 619-235-0176

SEQ ID NO:1:   (Length of Sequence = 362 Nucleotides)

CTTCCCTTTT GTTCCCCTCA GTGTCCCTTT TAATTGCTTC CCTCCATTTT CCTTAGCAGC ATCCTAGTTG ATGTTCTTGG

TTATCAGAGG AGCAAAAACA TTTAAGTGTC AAATAATGCT CATTGTCTCC CTGGGATTTC TAAACAGAAA AAATGAAGAA

AGAGGCAGAG AAGAGCTTCA CAAGGTGTGT GCCAGCTCTG CATCATTTCC AGCTGCTCAA CCACCATTTC TCCCATTTTA
GGTCCCCAAA AGTAGGAGGT GGGGCCTCAC AGAGCTGCTG TGGGCTTTGG GTATCAAAAG CTGCAGCCAC CATATGGGGC
ACTCCTGGCT GGTGTACAGG GTGGGCATTG CCCAGGTCTT TT

SEQ ID NO:2: (Length of Sequence = 214 Nucleotides)

GTTTTNCTTT TTTCTTAGCT TCATTTCTCT TAAAAAACAA GGAACAAGAA AACATTGCAC CAGCGTTCTA AGCCTCAAAC
AAAANACAAA ACAAATCCCC CTGCGAAGAA CAATAAACTT TACATCTCTT TGGCAACAAT AACTTAAAAT CACCCAACTT
CCATTCGCTC CAACCACAGC AGTTAGTTAG TTACAAAAAT ATTCCNTGTG CTGC

SEQ ID NO:3: (Length of Sequence = 344 Nucleotides)

ATTAATAGGA AAGATGATTG TATAGATGGT GGGCTATTAA CTCAGATCAG GATGAGAATC GGGAGTGCCT TTACATGTGT
GGTACCCAAA TGGGTGGTTG GATATAAGAG TAACAAAAGG ACTGAAAGGG TTAAAAAAGA AAGAAAAAAA AAAAACTCCC
TGGTTGGGAG GGTGTTAAGT ATCGAGTGTT TTTCCAAACC ATTCCTCCTC TGCTCACCTA CCCCTAGGTG ATTAAAGGAG
ATAACTTTTA AAAAGAAAG AATTGGCTCA AAGGTACTGT AAATTCTAGG ATTATATACC TTTATATAGG TTCATTCCCT
GATCCCTGTA TTATCAAGGC ACAG

SEQ ID NO:4: (Length of Sequence = 352 Nucleotides)

GACCCGGTAA CCGAGGCGGC AAGGAGGCCA GGTAGTCCCG GCACCTCTCA CTCTGCAGAG ACCAGCGGCT TCGTGGGAGG
CCTGTGGGTC ACACGTAGGG GCTAGAGCCA GCCTGCATCC TGCCCACCGG GCTCCACTTG GAGATCAGCA GGAGGGCCAG
TGTGGGACCC CTGCTGCCAC CTCTCCTGGG CCTGTKTCCT TTCTGGAAAT TAAGAAGGTG TGCTCCAGAG CCAAGAGGAG
CAATAAGAAA CCTCGTGTGC CAGCTTCTTA AGGGTKGCAG TGCAAGACCC CA

SEQ ID NO:5: (Length of Sequence = 562 Nucleotides)

ATACCCTTAC ATATATATTC ACAGAAAATC ATATTGCATA TACTCTTTCT CCACATCATA AAAATGGGTG TTGGGCTCTC
TAGGACACAA GGGAAGCAGG CCAAATTTCT CATATTTTCA GGAATAAACT GAGTGCCCCG AAGGTGTAAT AGGAACCTTT
TACTAACCTC ATCTGACTTC ATCCTCACAC CAGCATTTTG TGTGTAAGGA AACTGGCCGA GAGTGGTTAA GAAATATATC
CAAAGACGTA TAGTTCCAAA TGGAACACGG ATCTTTTTAT TTAAATTCCA ATCATCTTTC CATTATATCA GCCAATGATG
GAGCAGAAAG CTGGTCCAGG CAATCCCAGA ATAGATCTTT CTAGGCACCC GTTCAGTGTG AGGAGGGGGA AGTGGCCTTG
CCAAGGGGCC AGTGAGCTCA ATTAGGGTTA ACGCTGCTTC TTAGCCTACC CCAGGGGNCA CCGCACTTAG GTTGTTTTGT
GCCCAGCTTT GGCAGGAAGC ATTCCTCCTT TCAAAGATTN NAGCCTTGCG GTCATATATC GGGTGTAATA GGGTTCTTTT
TT

SEQ ID NO:6: (Length of Sequence = 359 Nucleotides)

ACATGTTCTC CCTCTTTCAA TTTTAGCAGT AATGTGATCC TCAAAAATGC ATTAATACTA GTTGAAGTAA ATAAACGGAA
GAGCTCCAAA ATGCCTGCAT TAAATGCATT TTTCCACACT AATGCCAATC ATCCAAAGCT ATTTTCAACA AGTCAGGTAT
TCAAAGCTAT TCACACCACT TGAAAGAGTA ATTACCATTT ACTGAAGCAC TTATCTGTCC TACACTGATG GGAGTAAATG
CTTCTCATAG GTTATCTCAT GTACATTATG CCACTTTNAC TTAAAATGAT CACAATTNAG TGCTATAGGT TTTTGGGTTA
ATGTTTTCCC NGGGGGAGTT GTTAAAAACA TGGCATTTC

SEQ ID NO:7: (Length of Sequence = 218 Nucleotides)

113

AACTTGCAAC ATAAATACTA GAAAAAGAGA AAATATCATC AAAATACAAA TAACTGTTAG AAATCATTGC TCAAAAGAAR
AACCTGGCAA TGCATGATTA CGAAATGCAA AAGAMGATAC AGTTGCTCTC TGTATATGCG CTTTCCACAT CCACAGATTC
AAACAACTGT GGATAAAAAA GGATTTTTCA ATGCCATTAA ACAVCAATGC AACAGTAA

SEQ ID NO:8:   (Length of Sequence = 345 Nucleotides)
CTACAATAGA AGGCAAACTA TGTCCCTCCT TTGCTCAGAA ACTTTTAATA TCTKCCTATT TCCCCATGTA AAAGCCAATC
CTCAACCACA GTGTAGAAGG GCTATCCATT TCTAGCTACA CATCTCCTCA GTCACTGCCC CCAGCCCCAG TACTTGGGGA
CTTTGCCCTT GCAGTTCCCT GTGCCAGCAA ACTCTTCCTC CAGATGTCCA CATGACTCAC CCNNCTCCTT CAGGGGTCTT
CTCAAATGTC ACTTTACCAG AGGTGGCTTC CCTGACCATC CTGTATAAAT AGCATCACCC TACCTCCTAT CTCTCTCTCT
AATGTCTCAG GAATTCGATA TCAAG

SEQ ID NO:9:   (Length of Sequence = 189 Nucleotides)
GTGAACAGAC TAAGGCCTTT NTGGAGGCCC AGAATAAGAT TACTGTGCCA TTTCTTGAGC AGTGTCCCAT CAGAGGTTTA
TACAAAGAGA GAATGACTGA ACTATATGAT TATCCCANGT ATAGTTGCCA CTTCAAGAAA GGAGAACGGT GTTTTTATTT
TTACAATACA GGNTTTNAGA ACCACCGGG

SEQ ID NO:10:   (Length of Sequence = 267 Nucleotides)
CTCCCTTCGC CACCTGCTGG ACGCGAGGGG CTACTACGAT GCCATGGGTG TCCTGRTTTT TTATTTCTCA GACAGGACTG
CTCTGTATNT GTCTTTGGAT TCTACGTAGA TTTATATTTG TAAAATATTA CATTTGTCAT GACCAGAAGA AATGTCATTA
TCGTAAAATT TAGATTCTGG NGTCTATATA TGNAAGNAAT ACTAACTACT AACTGTTATA ACAWCAAAAT GTGGGNTGTA
TATCTACARG CCNGAGCCGA CTTGTCA

SEQ ID NO:11:   (Length of Sequence = 247 Nucleotides)
CTCATAAAGC CAGGGTGATA AAAWTGGTAG TTTCATGTTA TCTACAAGRC TAAGKTCAAA ATTCCATGCA TGTGCTGRTA
AAAGACCCAT NATGGKCCTM ACTGTACTTA CTCCCCATTT ATTAGCATTC ATTCTGGTCA CCAGCTCTAG TTCCTCTGCT
TAGCGAATCT CGCTTGTCTT CAAGATGTCA TTCAAATGTC ACATTTTGTG GGAAGCCTTG CCTTTTTTGA CACGGTCTCC
CTGCCAC

SEQ ID NO:12:   (Length of Sequence = 280 Nucleotides)
AAGGCGAGAG GCTTCTGGAG AAACCCACCC CACCAACGTC TTGATCTTGG ACTTTTAVCC TCCAGAGCTA TGAGAAAACA
AVTTTCTGTV VATVGVGGCC ACTCAGCCTG TGGATACTGG CAGCCCTAGC AAACTCATAC ACACATACAT TTTAAACTCG
GTTTAATCCT GTGRCCATTC ACTTATGGTT CAGTTTTTAA ATAGTCCTAG TCTTATGVCC ACTGTTAAAG TTCACCAGGA
CATAGGSCAT TGGGGAAAGG GGCCTGTAAC TCTTGGATTA

SEQ ID NO:13:   (Length of Sequence = 339 Nucleotides)
VCTVTCTVCC AACTTCATTC AGATATTGAC TCTGGTGATG GGAACATTAA ATACATTCTC TCAGGGGAAG GAGCTGGAAC
CATTTTTVTR ATTGATGACA AATCAGGGAA CATTCATGCC ACCAAGACGT TGGATCGAGA AGAGAGAGCC CAGTACACGT
TGATGGCTCA GGCGGTGGAC AGGGACACCA ATCGGCCACT GGAGCCACCG TCGGAATTCA TTKTCAAGGK CCAGGACATT
AATGACAGTC CTCCGGAGGT TTCCTGCACG AGACCTATCA TGCCAACTGT GCCSTGTARA GGTCCAATKT TGGGTGSTGT
ACGGTAGTGG GGAGGCCTG

SEQ ID NO:14:   (Length of Sequence = 342 Nucleotides)

GGGVGCAAAG TAGCAGATTC TAGTAAAGGA CCAGATGAGG CAAAAATTAA GGCACTCTTG GAAAGAACAG GCTACACACT
TGATGTGACC ACTGGACAGA GGAAGTATGG AGGACCACCT CCAGATTCCG TTTATYCAGG TCAGCAGCCT TCTGTTGGCA
CTGAGATATT TGTGGGAAAG ATCCCAAGAG ATCTATTTTG AGGATGAACT TGTTCCATTA TTTGAGAAAG CTTGGACCTA
TATGGGATCC TTCGTCTAAT GATGGATCCA CTCACTGGTC TCAATAGAGG TTAATGCGTT TGTCACTTTT TTGTACAAAA
GGAGCARGCT CAAGGAGGGC TG

SEQ ID NO:15:   (Length of Sequence = 354 Nucleotides)
ATGTTGATGC TGAAATTVAA GATCCACCAA TTCCAGAAAA ACCATGGAAG GTTCATGTGA AATGGATTTT GGACACTGAT
ATTTTCAATG AATGGATGAA TGAGGAGGAT TATRAGGTGG ATGAAAATAG GAAGCCTGTR AGTTTYCGTC AGCGGATTTC
AACCAAGAAT GAAGAGCCAG TCAGAAGTCC AGAAAGAAGA GATAGAAAAG CATCASCTAA TGCTCGAAAG AGGAAACATT
CGCCTTCGCC TCCCCCTCCG ACACCAACAG AWTCACGGGA AGAAGAGTGG GAAGAAAGGC CAAGCTAGCC TTTTATGGGG
AAGCCGCAAG AAGTCCAGAA AGAGGGWWGG TTGA

SEQ ID NO:16:   (Length of Sequence = 348 Nucleotides)
CAGGCAAGTT TCTTCCAGGA TGAGAAATCA GTGGAAAGTG AGGGCCAGCC AACAGCCACC ACCAACCACC CAACACGCGA
GCGAGACCAT CTTAAAAGAG CCCCAGCCAA GCTGACCATG GGTCTGACCC CAAACTGAAG AAAATGCCCAG CCCAGCCAAA
CCCAAATTGC TAACTTGTAT TATAAGCAAG TACAATGGTC CTTACCTTAA GCCACTAAGT TTTGGGATGC TTTGTTACAC
AGCTATAGAT AAGCTGATAC AGGGAATGTC AGAWTCCATG ATGAGAGACC GAGCCTTTCA KTCTGTCAGA GGYACCTTVG
GTTGGCAAAA CTTCAAAAAG AGGGACCT

SEQ ID NO:17:   (Length of Sequence = 415 Nucleotides)
AGCAYGGGCT GGGGGGCCGG GAGTTAGGGC TGGGGCTTGT TTTACGCTCT GCCCCCCACA CCCCCTCCTC TTCCGTCCTG
ATTAAGCCCA AGGGTTGGTG GACTTAACTT TCAGCCCATC TCTAAGGGTT TCACAGACTG GATCTTTCTA AACTTTATTG
GGTACCTGCT TCCCCTTTTC CCTGGTAGTT TTCATCTACA AAAAGTCAAA ACCTGATCGA AATAGAAATA AGATCATCAA
ATTGGACCAT TCTCTTAGCG TTCGAGTGTG CCGGCCAGAC TGGCATTCAG TACACGCTGA GATCCAACCA CATCACACTG
GCCTCAGGTC ACCAACTCGC CACTCAGGGC ACAAGGCCTG CCCTTGTGGT CACAAGGCTT TCCTTAATGT CGTCGGTGCC
CAGGTGAACC ACAAG

SEQ ID NO:18:   (Length of Sequence = 356 Nucleotides)
GTATGTATGT CTGTAGGTAT TTCTATACTT AACCATCTGT GTCCCAATTA AGCTAAACAT GATTCATTCT GATGCCAACC
CCCATCCATC ATGCCATGGA TCGCTCTAGA CTTCTTCCCT TGTAACCTCC CACTCAAACA GTGAGAAACC TTTGCCCAGT
ATGTTTTGGA GTAACCTCAC TGGGAGTTTG CAGTCCCACT AGATGAATGC CAACCCATTT GTTCATTTAA AAGGACTTTT
GGAACCATAG AGCAATGGCT GGGCTGGGTC TVGCACGTTC ATCTTGACTG AAACAATTGG CCATGAAGGC ACTTGCCAAG
GAAACTCTAG GGGCCACAAG GGTCCTGGGT GCTTGC

SEQ ID NO:19:   (Length of Sequence = 339 Nucleotides)
CATGCTTCCA TTTTTTTTAG TTTTAAACCA CCAAACCAAT ATTTTYCCTT TAAATTTTAA TCTTATAATA TAGAAATCTT
ATGTAAATGA AATTTTGTCA TGTTTCAAAT AAAGAGAACT GAAGTAGAAA ATAGAAATGC CAGTAAACAA CATAATGTTT
AATTTACAAC TTACATTAGG GGTTTGGGGG VATGCTAATT ATATATTGAG AATATACATT AGAACTCTTC AAAATGGGCT
CTTCTAATGA GGTCACTACT GAACATAATT GTTCCCTCTT CTGTTAAATA GAATAGGTTT AAATGACTAG TCCAAATGGA
ATTATTGCCT TCTKGTTAA

SEQ ID NO:20:   (Length of Sequence = 437 Nucleotides)

AGAACAAGGG AACTCAGCAG CCCCTCCCTT CCCATCAGCT GTTCCTGAGA GATGCAATAT AGTAGTCATC GACATCATCC
TTATCAACAG CATCATCACT CAGACAGTGG TGAAAGTCTT TCTTCACAAG GAAAAACAAA GATAAAGAAA TACATGAGCA
TTAATCAGAA ATTTTCAAAG CTTGGATTCT AATGATATGC ATTATCATTA GACATTCAAA TGCTATACAT CTTCTGATGA
AGCCTCCTTG ACAGCAGCTA CACTTATTTC ACATTAGAAT GCCTAGAGAA ATCCTGACTG CCCAGCTTGG TCATGGGACC
TTCCCCACTC TCCTCTTGGA GGAATGAAAA GATGTGGCGG CTTTCTACTT TTGCTACTGA GCTGGGGTAT ATGGCTAGGT
CCACTTTCTA AGGGGCTTGG AAGGGTTATT CCATCTG

SEQ ID NO:21:   (Length of Sequence = 385 Nucleotides)

GTTTGATTTG CTTTTTTTTT AGAGTTTTAC ATCAGTGTTT TTCAGGAATA TTGGTCTTTC ATTTTCTTTT CTTGGAATAT
TTTCTAGTTT TACTTTGTCA GAGTAAATTC TGGCTTCACA GAATTATTTG TAGTCTCTCC TGTCTTGGTT TATTCATGCT
GCTATAACAA AATACCACAG ACAAGGTGGT AATAAAATAAC ACAAATTTAT TTTTCCCAGT TCTGGAGGCT AGGAGTTCAA
GAAGCTGGCA AGTTCAATGT CTGGTGAGAC CCATTCCTTC ATAGGTGGCA CCATCTAGGG GTCCTTACAT GRCAAAGAGA
TGGAAGGGCC AAAAAGATGG TGACCTATTG TGAGGCCTTT TTTAAAGGGC CTTVAAATCC CAGTC

SEQ ID NO:22:   (Length of Sequence = 374 Nucleotides)

ACCTTCATGG TCATGAAGGC CATGCAGTCT CTCAAGTCCC GAGGCTACGT GAAGGAACAG TTTGCCTGGA GACATTTCTA
CTGGTACCTT ACCAATGAGG GTATCCAGTA TCTCCGTGAT TACCTTCATC TGCCCCCGGA GATTGTGCCT GCCACCCTAC
GCCGTAGCCG TCCAGAGACT GGCAGGCCTC GGCCTAAAGG TCTGGGAGGG TGAGCGACCT GCGAGACTCA CAAGAGGGGA
AGCTGACAAG AGATACCTAC AAGACGGGAG TRCCTGTGCC ACCTGGTGCC GACAAGAAAG CCGAGGCTTG GGTCTGGGTC
AGCAACCGAA TTCCAGTTTA GAGGCGGATT TVGGTCGTKG ACGGTGTCAG CCAC

SEQ ID NO:23:   (Length of Sequence = 322 Nucleotides)

CAAAACGTGA TCACCACAGC TCCGTTCCTG CAGTGACACT TAACATACTC AGCATCTTCA TGAATTCTGA ATAATTTACT
GATCGTAAAG TCTAAAAGTA TCAATTTCAG GTGAGCAGTT TTAAATCAGA AAATAGTCAA TAGTTAATCA TGACTCTTCA
GGGTATTTCC TTCACGTCCT CTGAAGAGTT TCCCAGAACA TTCTTGTGAA AAGGAATGCC TCCCAACAAT GGAGAGCAAC
AATAGCAACA GGCATCTGAA TCAGCCTGGC CTCTGAAAAC AGACCANAGA GGAGTTTATC TGTTTCTTCC AGTGGAGGAA
GG

SEQ ID NO:24:   (Length of Sequence = 113 Nucleotides)

CCTGAAATCG GAGTCTTTTG GACTGACTCC AAATTCAATG GGTGGCACAG GCAGCACGGA GTCCACGTGA ATCTCCACCC
CGTTAACAGG CGGGACGACA GCCCCTTGCA GCC

SEQ ID NO:25:   (Length of Sequence = 399 Nucleotides)

GGAAAGAATG AAGGAAAAAC AAGACAAAAT CTACTTCATG GCTGGGTCCA GCAGAAAAGA GCAGACGCTG GCCTCAGACA
CAGACAGCAG TCTTGATGCC TCGACGGGAC CCCTTGAAGG CTGTCGATGA TAGGTTAGAA ATAGCAAACC TGTCAGCATT
GAAGGAACTC TCACCTCCGT GGGCCTGAAA TGCTTGGGAG TTGATGGAAC CAAATAGAAA AACTCCATGT TCTGCATGTA
AGAAACACAA TGCCTTGCCC TACTCAGACC TGATAGGATT GCCTGCTTAG ATGATAAAAT GAGGCAGAAT ATGTCTTGAA
GAAAAAANTT GCAAGCCACA CTTCTNGAGA TTTTGTTCAA GATCCATTTC AGGGTGAGCA GTTAGAGTAG GTTGAATTT

SEQ ID NO:26:   (Length of Sequence = 355 Nucleotides)

GATTGGTATA CGGGCAACAA TGGATTGATA GCCTTAATAT AGAAATAGTT CCAGCAGGCC AGATGCAGTG GCTCAATTCT
GTAAACCCAG TGCTCTGCAC AGCTAGGAAG GAAGATCACT TGGGCCCAGG AGTTCAAGGC TCCAGTGAGC CATGATCACG
CCACTKCCTC CAGCCTGGGT GACAGAGTNA GGCCCTGTCT CTAAAAAATG AAATAGCTCC ATCAAGTCAA TAATTAAAAG
TTCAACAGCC CAACAGANCA AAAATTGTAA ATGANCACAA ATTAGAAAAT GTACAAATTA AATATTAATG ACCCATAACC
CTATAAGGGA AAGTTTAACC TCTCTAGTAT TTTTT

SEQ ID NO:27:   (Length of Sequence = 322 Nucleotides)
AAAACGTGAT CACCACAGCT CCGTTCCTGC AGTGACACTT AACATACTCA GCATCTTCAT GAATTCTGAA TAATTTACTG
ATCGTAAAGT CTAAAAGTAT CAATTTCAGG TGAGCAGTTT TAAATCAGAA AATAGTCAAT AGTTAATCAT GACTCTTCAG
GGTATTTCCT TCACGTCCTC TGAAGAGTTT CCCAGAACAT TCTTGTGAAA AGGAATGCCT CCCAACAATG GAGGAGCAAC
AATAGCAACA GGCATCTGAA TCAGCCTGGG CTCTGAAAAC AGACCAAAGA GGNGTTTTTC TGCTTTCTTC CAGTGAGGAA
GG

SEQ ID NO:28:   (Length of Sequence = 287 Nucleotides)
TATTTTTATT AAAGGACCAC CCTGGCTGTM GTGAGATGAA TGGATTCAAA CAGGGCAAGA GTGGATACAG MGAGATAAGT
TAGGAAGCTG GTATAGAAAT CTGGATGAGA TATGGTGGCT TGGATGATAC TAGCAGTGAG TATGGGAAGT AGGTGGATTA
CTTTACACTT TTTTAGATCA GTCKATTCTT GATGTCTTGA AGACAAATTA ATCTCATATA TAACTCTAAA CAACATATTT
ATATTTCATG TAAATAAGGA TAATGCTGAC CAAATATTAG CACCTTT

SEQ ID NO:29:   (Length of Sequence = 282 Nucleotides)
CAGGGCAGGG AAGCCTGGAA GCAAAGGAGG ACCTGGCTCC TGACTCTCAG AGAGGATAGG CTGGGATCCC TGGGGCAGGC
CTGTTCCTTG GCTGGCCAAT TTAGTCTTTC AATTGTCTAA GGGCTCTCCA TTGCCTGCCC TTGCCTCTTT CTAGCCTGTT
ATTTCTAGGC TCCTCTGAAT AAATCTCAGG TTTCCTACTG TCATGCCTTT AGTTCAAAAA TGAGAATCTG CCCTACAGTG
CTGGCCTCCT TCCGGCCTGA AAGCCAGCAC CTTKCGACCC GG

SEQ ID NO:30:   (Length of Sequence = 345 Nucleotides)
GAAGCTGGTG AATACATTTC AAGACACAAC ATGGCACCTG TGTCTAGCTC TATGGTACAA CATGGTACTA TGACACATAT
AATGGGTTGC CAGATGGGGA AGGCAGCTTC TCTGCAACTG AGCTGAGATC TCAAAATAGA CAATGTCAAG ATGGAATGAG
AAGGGAAAAA CAGCATGTGT AGACAGGTAG TGACAAAAGG CTAATTAAGG ACTGAAAGAA ACCAGTGGCC AACAAGGGAA
TCTACGGGTG ATAAAGATAA GACGGTGAGA GAGATAAGGC TAGATTGTAT AAGGCTTGAC AGACCATAGC AAGATAAGCA
AGGACCTGTG TCCTGTTAAC CATTT

SEQ ID NO:31:   (Length of Sequence = 343 Nucleotides)
ATAAAATTGG TCTGGGTACC CTAAGGTGTT TGCKTTGATA GAAAATTGAC ACCCCAAACT AAGTGTTCTA CTTAGCTTCT
ACAATAGTTA TTCCTAGACC TTAGATTAGT CATTACATTT TTATTTAAGG TACTATGTTA CTTTCATGAC TACAAAATGA
GGCACTCGTA CAAAACAGGA ATGAAAACAT ACATATACTG TCTTGTCTTT ATGTCGTATT AATGCCAAAG ATATTGTCAG
GGATTATTTT AAAGAAGCCC TTACTCATGA TGGCTATTTT TAAAAATGGC ACAGGACAGT AACAGGCTGA AAAGAAACAC
CTGGTTTGAG GGGCCAAATT AAG

SEQ ID NO:32:   (Length of Sequence = 153 Nucleotides)

117

ACAGGATGGT CAGGACAAGC CACCTCTGGT AAAGTGACAT TTGAGANGAC CCCTGAAGGN GGGGGGTTGA GTCATGTGGA
CATCTTGAGG AAGAGTTTAC TGGCACAGGG AACTGCAAGG KCAAAGTCCC CAAGTACTAG GGCTGGGGGC AGT

SEQ ID NO:33:   (Length of Sequence = 257 Nucleotides)
TCAGTCAGCT TATCGCAGGT GCAGCCAAAC ACAAAGCTTC AGGACAAATT GTACAAACTT TACAATGTGG GATTTAAATT
TAAAATATGA TACATAAAAA TCTACACAAA ACTGATAAAA ATCAAGCACA GNTACCAGGA TTGAAACTTA TAATAATCCA
TGTGTGAAAG GGAGTCTTGT TTCCTTTCAA GTGCTTTTAT TCTGCTATGG AACAGTCAAA ATGGAAGNTG TAAAGCTTTG
TGGTTAGTTT AAATTAT

SEQ ID NO:34:   (Length of Sequence = 307 Nucleotides)
CTCCCACCCA TATCTAATCC AACAAGTCCA GCTGCCTCTC TCTNAAMAAT ACCNARGATC AGGCCCCTTC TCAGCACCCC
CACAGCTGCT GCCCCAAAGG AAGCCACGTC ATCTCTCACG GAGATTGTKC AGCAGCCACT GCCTCCTTGT CACCTTCGCC
TGTGGTCATT CTCCCCACAT GGCCAGGGAA TGCGTCCTGT TAAAGTCTGC TAGGTCACGG TCCTTCCTAC TCAAAATGCT
CCCYTGGCTC CCACTGCCCC CAGAGTAAAA AGCCCAGACC TTCAAATGAC ACAAAGGCCT ACAACGA

SEQ ID NO:35:   (Length of Sequence = 266 Nucleotides)
TCCACAGGTC ATCAGATRCC TGCTNGATAA TATATAAACA GTAAAAACAA CTTTCACTTC TTCCTATTNT AATCGTGTGC
CATGGATCTG ATCTGTACCA TGACCCTACA TAAGGCTGGA TGGACCTCAG GCTGAGGGCC CAATGTATGT KTGGCTGTGG
GTGTGGTTGG GAGTGTGTCT GCKGAGTAAG AACACGNTTT TCAAGATTCT AAAGCTCAAT TMAAGTGGCA CATTAATRAT
AAACTCAGAT CTGNTCAAAA GTCCGG

SEQ ID NO:36:   (Length of Sequence = 388 Nucleotides)
CAGCTTTGGA AAGACTTTGA CCTCTGAACA AAAAGCCAGA AGGCTGCTTA AAGAAATAGT AAGGGTTTCA CTTGCCCTGG
ATAGTCACAA ATCTAGGAGT ACTGGTTCAC TGCCTTGGGT TACCAGGTAT CAGCTCTTTC ACAATCTCTC CTCTTCCCAT
GCTTCCCCTT AAAGTCCAGT TGACAAATGA AAAAGAAAAA AAGGCCTTGA TTTATAGTAT TGCCAAACAA CCTCATAAGA
ATGGGTAAAA TTACATACAC ACATACATAG AGAAGGGAGG TAATGCTGTG AATCTACTTG AGCTGGATTG CATGCTCCCT
AGGGACCACG GTGCCCAACC TGTAATTTTA TTTCTAACTT TTATAAATAT ACTCCTTTTT CACGGATG

SEQ ID NO:37:   (Length of Sequence = 342 Nucleotides)
GAATGTCTAC ACAAGGAAGT ACAGGATTTG GCTTTTCTAG ATGTCATATC CAAACTTCGC AGTCATGAGA ACAAAAGTGT
TGCCCAGCAG GCCTCTCTCA CAGAGCAGAG ACTTACTGTG GAAAGCTGAG AACTGCCCGA TACACGGCAT CATCCCATCT
CTAATTTCCC CTCTGTCCTC CATCCAGCGG CTTCTTCCGC TTCATTCTCT ACCATACCAC TTGTGCATGC ATGTRATGTT
CTAATACCAA TTGAAGAACC GCTGTAGGTA CCTCCCTAAT AAGGATTTCT AAACCTATAG TTAGTGTGAT CATGACTTTG
GTCAAAGGCA AGTYTCCCAC CC

SEQ ID NO:38:   (Length of Sequence = 355 Nucleotides)
GATGACTTGG AGAATGCCGA AGAGGAAGGC CAGGAGAATG TCGAGATCCT CCCCTCTGGG GAGCGACCGC AGCCAACCAG
AAGCGAATCA CCACACCATA CATGACCAAG TACGAGCGAG CCCGCGTGCT GGGCACCCGA GCGCTCCAGA TTGCGATGTG
TGCCCCTGTG ATGGTGGAGC TGGAGGGGGA GACAGATCCT CTGCTCATTG CCATGAAGGA ACTCAAGGCC CGAAAGATCC
CCATCATCAT TCGCCGTTAC CTGCCAGATG GGAGCTATGA AGACTGGGGG GGTKGACGAG CTCATCATCA CCGACTTGAG
CTGGAGTCAT CTTTCCTGMC CTTTGCCCCA TGCCC

SEQ ID NO:39:   (Length of Sequence = 303 Nucleotides)

GCCAAAAACA NYTCTGAACC CGTTTTGGGA AATAATGGGA TTCCTTGATC ACGGGACAAC GAATCACCCT GAAGTTTTTC
TCCAGTTTAC TCAGTCACAT AAGCCACCAG AGGCTAACCA CACTGACAAC AAAAGCAAGT CCCAGGATTC CGGGGGCTAA
TACCATGCTA GGCATTACTT GGGAAGTTAT GAGTTGGTAT ACATCTGTGA ATTTGGTGGG AGGAGAAAAC TAACAGTAAA
TTTATCAAAG CCAGTGGTAC GTTCAGCGTT ATAAAAATTA CAAGGATCTG CTTCTCGGCG ACT

SEQ ID NO:40:   (Length of Sequence = 178 Nucleotides)

GGTGTCGGGG GCTAGAGATA CACATGCCAG TNCTATACAT TTCTCAGCAC TGTGCTGTCG ATTCACAGCA GTTCAATTGT
TCATCGATA TAAGCCAGTC ATGTGGCCCA AGTTATTCTG TCGGCTGTGT TCTCTGCAGG AATCTGATGC AAGAAGGCCT
GAAGGATGCA TGGCTTTT

SEQ ID NO:41:   (Length of Sequence = 322 Nucleotides)

TGCCTTTCTT TAGAAATTTA GGGCAGTGTG ATGCTTCCAG AGGTCTGTAC AAACACCAGC TTTCATTGTG CTTGGGAGTT
TCCATGCCTC TYCCTTCTCT TCGCTTAGTG CACGTTTCTG CTTTTTATCA GTTTGACTGC CTGAGACTGA KTCCAACAAC
CCAAACTGAA CGCTCAGCTC CTCCKTTTCA AAGGAGGATG ACTTNTCTNA ACAACTATTT AGGTGAATTA TTKCKACAGT
TTATTAAAGC AATGGCTCTA AACAAATTCC ACTGGGGGTG ACAAAGTACA ATACAAAAGG CGTACTCTGA GGGCTTGGGG
GT

SEQ ID NO:42:   (Length of Sequence = 278 Nucleotides)

AAACTTTGGC ATTTTTATTC AGACACGTAT AAAAACAAAA CAAAAAACTT CAGTGATACA ACAGACGTTT TCCCTTAGTT
CCCCATCCAA GGGGACAGAG GTGTGCAGCT GAAGCTGGAY CTTTTTTCTG TCCTACCTGG AAGCTGTCTC ACTGCTGGAT
GAGAATGGCT TCTAAAAGTG GATCTTGGGG ATCCTTGTGA ATTTGCCCTC GGATAAGGAG TGAAGWTCAT TTACGGCACA
TGTGGATTAT GGTTTACACA AAGATGTCCA GTTATTTT

SEQ ID NO:43:   (Length of Sequence = 225 Nucleotides)

AGATCAAAAG ATGAGAGAAG CTGAAACAGA ACCGCATGAG GGAAAGAGGA AAGTGGAATC TCTGTGGCCC ATCTTCAGGA
TCCACCACCA GAAAACCCGT TACATCTTCG CCTCTTTTAC AAGCGGAAAG CCAGCAGCAG GATCTCTAGG AATATTAGTA
TTAAAGAAGG CTATGCAGCA TAAACCTGAT TTCAAAATGG TAAAAGCAAG GTTATGTGTA CTTGT

SEQ ID NO:45:   (Length of Sequence = 305 Nucleotides)

GGATTGCCAG GAGCTGTTCC AGGTTGGGGA GAGGCAGAGT GGACTATTTG AAATCCAGCC TCAGGGGTCT CCGCCATTTT
TGGTGAACTG CAAGATGACC TCAGATGGAG GCTGGACAGT AATTCAGAGG CGCCACGATG GCTCAGTGGA CTTCAACCGG
CCCTKGGTAG CCTACAAGGC GGTGGTTTTG GGGGATCCCC ACGGCGAGTT CTGGCTTGGG TCTTGGAGAA AGGKGCATAG
CATCACGGGG GGACCGGAAC AGCCGMCTGG CCGTGCAAMC TGCGGGGACT GGGATGGGCA AACGC

SEQ ID NO:46:   (Length of Sequence = 264 Nucleotides)

ATGAAATAGC ATATCTNNGC CTAATTAAAA GATTCCATTA CATTTACTTT TATCATTTAT ACTGCCAAGG ATCAGTCACA
AAAAATTCAA ATTATACATA TTATTCATGC TTTAATTTCA TAAATAAGTA AATTAAAGCA AGCCAATATG TCTCTCTTCA
TAACATAGGG AAAAATTACT GTTTAGCATA ACAGNGTAAT AGGCAAAGTC TAGCCATACA GCAGCAGTTC ACGGTGTTGT
CAAGTTGGKA CAGGTTCCAT CGAT

SEQ ID NO:47:   (Length of Sequence = 175 Nucleotides)

119

GATCTCTTCC AGCGTCAATG TACTGGGACA GCAAACACTC ACATTTGAAG TTCCTTCTGG CCACCGGCTT CCCAGTACAT
TGACGCTGGA AGAGATCATC TCAAATGGTT CTCCAGTGTC AGGCTGGAGA TCTCCAGAAA TGGAGTCTAC TCCTGGGGTG
GCTTGTATGG GAGCC

SEQ ID NO:48:   (Length of Sequence = 270 Nucleotides)
GTCTGTCAGA GCNACCGGGC AGCTCAMRCC CACAGCGGCT CCTCATCCTC TGTGGTGGCA TCCTCATTCC ACTCTCATCT
GCCACCTKCT CAGGCGGGCC TCTAGCTTTC TCATGTACTC TAGCAATTCC TGTTTCTCCT GCTGTAACTG CTCCTTTTCC
TTCTGGAGCA CACGCAGGGC TGACCGCAGC TGTGTCAGCT TCCGCTTACT TTMTGACAAC TGTACCAGGC TAGAATCCTT
TCTGCCTGGG TCAGCTTCAG TCTTTGAACA

SEQ ID NO:49:   (Length of Sequence = 359 Nucleotides)
CCCTGAAGAG TGGGTGGGAC AACCAGATGG GTGTAACCCC TTGTGGGGGA AAAGGAGTGA GTTTACTTGG TAAAATAATA
ATGGTAATGT CAGCAGCGTG GCTGGGGGAC TCAGTATGGT CCCGGGAAAA GAGTTGGGGC AGTGAACTTC CCAGGCCGAC
TGGCCTTGGG CTGGCAGCAG GGAGGCTGCA GGGCGCCTAC CTMCTCTGCC ACGTCCCTGC CTAGGAAACC TATCCCAGGA
CACCCTGCTT TGGCCTGGAT AGCAGCCTAG GGATGAGCAT TTCTTTGAAA GCAATTAGGT TATTCACCTG GTATTAAAAC
TATTTACTGT TAAAAAATCT GTGACTTCAT GGARGTGGG

SEQ ID NO:50:   (Length of Sequence = 271 Nucleotides)
CCAGGAAGGA CAGGAAGTGT CCTCTAATAC GCATAAGATC CAGTACAGGA GAGATGGGAA GMGAGKCTCC AGGATGAAGG
GGAAAARAGG CCGCATGCCA GTCACCTGGC ATCINCCAGA GAGGGYCAGY CTNCCCACTG AGACTGGGGC ACGAGTCCCG
TCATCACCAT GCCCTCTGAC TGTCGAACTG TCTTTTTACC TGACAAATAC TACACAGGTA TCGMTCGTGG CCATACTCTG
CTATCTAAAC CCAGGAACTG ATTAGATTGT T

SEQ ID NO:51:   (Length of Sequence = 226 Nucleotides)
CTCCAAGCAG TAAAGACTTG CAAAGCATTG CATTTTGATT AAACCTTGCT GGGCTGAAGG GCAGGCAGAG CTGTGGTGGA
CACTGGCAGG ACGCAGCACC CCCCGACTGG CCCTTGGCAG GCTGCACCGG GCGCATGCGG GTGTGGGCCA GGGTTGCTTT
AGGAAGCAGG TGGGAGTCTK NCACGTGCAG KCGGTCCAGG AGKGYACCAK GCCTGGCAGG GCACTG

SEQ ID NO:52:   (Length of Sequence = 408 Nucleotides)
GGTGGGGCAA GGTGGGGGTG AAGTGCACTC CTGCTGCATG AGTGGCAGGG CAGGGTGCAC ACACACACGT GGGTMCTGGC
TGGGTGAGGC AAGCAAAACC TGCCTGCACA TGGCAAAGGG ATGTGGGAAG TATCCATGGG CNCCAGGGGA AGCTGCAGTT
TGGGGAGGGA ATGGGTGGCA CTGCTGCGTG TCTGTGGGGG CCACCCCACT GGGGGTCTCC AAGTGGTCAA GTTCCGTCTG
CCAGGTTAGA AGCTATGATG GGGGCTTCTA GGACACTNGA GGCTGACCTG AAAGCAAGGT ACTTTTCACA CTGGGACCCT
GCAAGAGGCC AACAAGATTA AGGGATGCTT CAGGTCAGAC TTGGCCCTCT TCTTATGGGG CAAGACCTTC CCCGCAGAGT
TCAGATCT

SEQ ID NO:53:   (Length of Sequence = 314 Nucleotides)
TTCTGTGCAG GAGGACCACA TGGCAGTCCA GCAGACTGCA CATTTTTAAA AACTAGGTCT TCCCAGGTAG TTTGAGGAGC
ACCAGGGCAC ACTCAGGGAA GGGACATGTC AGTGTCTGAG AGCTCACGGG AGGAAGGTGT AGTGACAACA TGGACCATGG
TGGAGTGACT TTAGACGGCT CTTGGGTNAG GAGAATCATC ATGTAACAAA GCATTAAATC ATTTGGAGAA ATTCAGAAAA
NTCGTAGATG TACATTCTAG CCCACTTACC AGGCCTACTA AACGTCAATC AGATATATTT CAATTTGAAT TCGG

120

SEQ ID NO:54:   (Length of Sequence = 310 Nucleotides)
AAGCCACCGC ACCTGGCCCA TTACATTTAT AATGTTATAA GGGGGTTGAG GGGTCGTCCA CTGGAGCAGT GGTTCTCAAA
CTCGTGTATG CATAGGAATT ACCTGAAGGG CTTGTTAAAA CACAAACTGC AGGGCCCACC CCCAGAGTTT CTGGTTGGGG
AGGTGTGGGC TGGGCTTGAG GATGTGAATC TCTCACAAGC TCCCAGGTGA GGCTGCTGGT CTGTGGACCC ACTTCAAAGA
CCCAGTGAAT CAGAAGAGTC AGTGAGACTG GACAAATGAA CGCAAGACAG TCTTCAAAGG AGACCAGAGG

SEQ ID NO:55:   (Length of Sequence = 252 Nucleotides)
TTTTTTTTTT TYCCGGGGAR GTCAAACATA CTTTTTCAAC ATAGGATKTC TGACAGGAGG CCCTTGGMCA GGGTTCCCTG
ACCTCTGYTT CAAACCCCAC TGGAAACAGA GCAAAGTCAT CAMGAAAACC CAGGACACCA GGGCAGGGGG GCTGCACAAG
GTCGGGTAGG TCACAGTGGG CCAGCACACA GTGGCCCCGC CCAGGTCCAG CCCAGCCTGG GGGAGGGTGT GAGGGTTCCA
KGCAAGCTCA TT

SEQ ID NO:56:   (Length of Sequence = 188 Nucleotides)
GTCAAGTCTA CCATCATTCT AGAAGGAAAA GGCATGGTGG GAATTCAGCA CCTGAACTTG TATTTACACC AGCCTCGGCA
TCTGGCAAGG RAATAGCGAT TGTTCATAGT GATGCAGAGA GAGAACAGGA GGAKGAAGAA CAAATACACA CAAACAACTG
ATCTAGGGAG ACTCCAARGA TCCAACAG

SEQ ID NO:57:   (Length of Sequence = 304 Nucleotides)
AATCAGCCTG CAAGCAAAAG ATAGGAATAT TCACCTACAG TGGGCACCTC CTTGAAGAAG CTGATAGCTT TTACACAGTA
TTAGATTGAA ATAATGGACA GAAACACATT CTTGTCAAGA AAGGGGGAGA GAAGTCTGTT TGCAAGTTTC AAAGCAAAAA
GCAAAAGTGA AATGATTTGA GGATTTCTGT TCTAATTGGA GATGATTCTC TGGTTGTTAG AAATGGCAAA TATTGATGAT
TGTGTGCTAT TGATTGGTGC AGGATACTTG GTATACGAGT AAATACTTGA GACTCGTGTC ACTT

SEQ ID NO:58:   (Length of Sequence = 261 Nucleotides)
CCAGAAGCTT CTTGCCTTCT CTGTGCTCTC AGTGGTTCCC TTCCCTGAAG TGCCTCCCTT CTCATTAATT ATAGCCTGTG
TCTGAACATT GTGAGCTATA AGAACCCTCA TATTAATGGT TAAGGGACTG TTGGAAATGA TGTGATTTTA TTAAAAATGG
GGTCTTTGTG GAGGAGTCAG GAATGGTCAA AATGAGCTTC AGGTATGGGG CTTGCTCTRT GCTCCTGATA CCAAGGGTCT
GGCAAGCACA AAGGAAGGTG G

SEQ ID NO:59:   (Length of Sequence = 470 Nucleotides)
AATACGTATT CTGAAGCCAC TATATCTGCA TATGTATCCC AGATTTGAAC AATTAAGTAA AAAGATGGTG AATGATGAAA
GCCAGTTTTC TGTCTGTAGA AGTGAGAGGT GACAGATAAC CAAAGGAAGA AGGCTAGAAT GGATAGAGGA CAGTGCTTAA
GTGTAGTTCC TGTTGCCTTT AGTCTTATAG ACTTCATTTC CAAAGTTTCT TAGCACCCCC CTTCCCCCTT TGGTGAGGTT
GTTTCACATA TTTTCTAGAC AATTAGATTC TTTTGTCAAA GTCTGTGTTC CATCCGGAGA GCCTCTGATC TCTTAAATGA
TTTTTTAAAT TTACATACAT TAAGGTTCAC TCTGCTGTAA AGGTCTGTGG GTTTAATCC TGTCTCACAG TTTTTTGCATA
TGTTGGCCTT CTGCCTGGGA ATACTCTCCC AGATATTCCC CATGACTGGC CCCTTATCTT CAATCAGATC

SEQ ID NO:60:   (Length of Sequence = 466 Nucleotides)
GTGTTTCAAG GGAAGGCAAC TMCAAGTTTG TGCAGCTGAA TTTCTGTAAA GTTAAGACAG ACTCAMCTTC TCATTCAATC
TGGGGCAGTG GATAACCTTT CTGAATAGAC CCACTTGTTC ACGGACAGGG ATAGAGGTTT GCCTTTCTTC TTTCCTTGAA
TTTGGAGTGA GCACTAGGGA GGGGAAGTGC ATGGGTGACA TGAAGAAGGT GAAGATGTAG TAAAAGCATC ATCCAGGTAC
ACATTAACGC TGCTGCAGAA TTTTCACAAT ACAACTGAGC GAGTCTGTAC TGGCAAAAGC AATTACTGAG CACAAAAGCC

AGTCCTCAAG GGCTGATTCC ACCTTCCCTG TCCAGGGACT TTCTCAGCAA ACTTTGTTCA TGAGCAGTTG TTCGCTTTGA
TGGTCTTAGC CAGTTTTTGG TGCAGGGGTG TTCCTCTGGT ACTAGGGCTA GGGCAGCTGT TTAAAG

SEQ ID NO:61:   (Length of Sequence = 491 Nucleotides)
GACACCCCTC CTGCCATGAA GAATGCCACT AGCTCTAAGC AGCTCCCACT GGAACCAGAG AGCCCCTCAG GGCAGGTCGG
GCCTAGGCCA GCCCCCCCGC AGGAAGAGTC CCCTTCCTCT GAAGCAAAGA GCAGAGGACC CACCCCACCA GCCATGGGCC
CACGGGATGC CAGACCTCCT CGAAGGAGCA GCCAGCCATC TCCAACAGCA GTGCCAGCCT CCGACAGCCC TCCCACCAAG
CAAGAGGTGA AGAAGGCAGG AGAGAGACAC AAGCTGGCAA AGGAGCGGCG AGAAGAGCGT GCCAAGTACC TGGCGGCCAA
GGAAGGCAGT GTGGCTGGGA AGGAGGAGAA AGGCCAAGGT GCTGCGGGAG GAAGCAAGCT CCATGGAGCG CCGCTGCCGG
TTTTAGGGAG CAAACGTCTT AAAGCCGAGC AACGCCGTTC AAGCCTTGGA GGAACGGCTA GCGGAAGAAG TTTGTGGAAA
ACAAGGGGCG T

SEQ ID NO:62:   (Length of Sequence = 478 Nucleotides)
ATCATTGAGT ACGCAGAGCT CAAAACAGAC GTGTTCCAGA GCCTGAGGGA AGTGGGCAAT GCATCCTCTT CTGCCTCCTC
ATAGAGCAAG CTCTGTCTCA GGAGGAGGTC TGCGATTTGC TCCATGCCGA CCCTTCCAAA ACATCTTGCC TAGAGTCTAC
ATCAAAGAGG GGGAGCGCCT GGAGGTCCGG ATGAAACGTC TGGAAGCCAA GTATGCCCCG CTCCACCTGG TCCCTCTGAT
CGAGCGGCTG GGGACCCTCA GCAAATCGCC ATTGCTCGCG AGGGTGACCT CCTGACCAAG GAGCGGCTGT CTGTGGCTGT
CCATGTTCGA GGTCATCCTG ACCCGATTCG GAGCTACCTT CAGGACCCAT CTGGCGGGGC CACCGCCACC AATGCGTATG
ACGTCGATGA GTTTTTGAGT TCACTGCTGT GAGCGCATGA GTCGTGTACT GAATCCTGTG GACAACGGTT AAGTTACA

SEQ ID NO:63:   (Length of Sequence = 183 Nucleotides)
CCTGGAAAGT GGGGGTGGGC CAGGGGGCCA GGCCCAGCAT GCACCCCCAT TTTTTTGGGG GCTGATCCCT GCCCCAGCTC
TGCTGATACC CGGGGCCACA GCGTCAGGCC GTTGGGGGTG GAGKTAGAGG TGGGAGAGCA GGGGAGAGAG CCTKAGGAGC
CACAATTGGG CAGACAGAAG CGG

SEQ ID NO:64:   (Length of Sequence = 316 Nucleotides)
GGATATTGCA CCTTACAGAC TTAGGGAGCC TTTACCAGAG ACGCCTAAAA CGCCCCAGGT TCAGCCATTG TGCTGAATAG
AGTGGAATAT AGAACCAGGG ACAGAGTATT TCATTTAACG TTGATATATA CTTGCTAAGG AAACACTAAC AATACTGTAA
CTTTGTTAAA GGACATAGTA TTGAAATGGG AAATAGAGGT CAGGCTCACA TCATCTTAGT TTAATGCTGG GCAACTTTTT
CTGATTTCTG TAGTTCCCTG GAAAATGTGT CCTTCGTACC CATAAAGTGG TACAAATGCA TTTGTAACCA TTTTTG

SEQ ID NO:66:   (Length of Sequence = 411 Nucleotides)
ATCTGGTCTA GAGAGGCGAC TCCAAGCTCT CTTGCTGGCT CCCAGCTGTG GGAATCCTTT AGGCTTGTTC TCAACCTACA
CGTTAAAAAT GCTTCTTGGT GTGTTTGGGG AGGGGGAGAG GGAAACTGAG CTCTCTCTTG ACCTCCTCCA ACACCCTTGA
CTTGCTTACC CAGCCATTTT CAGTAGCTAC ACGGGTGGTC ACAGAACACT GGGCGGCACT CGGCACACAA CACAGAACCG
GGGCAGTCCA TGCAGGTGCG GGAACACATG TCGGACCCAG GGAGCAAGGA ACACGCCACC CCGAGGAACA TGCAAACGGA
GGAAGGATTC CCTTCAGATT CCAAGGATGC CACAACCCCG ACGGGCGGCT TAGGGAGGCA CCGATTATCT AAGGAAAAAG
GCCACTGTTT G

SEQ ID NO:67:   (Length of Sequence = 413 Nucleotides)
CTGCTCCTTA TGTTTTTATT TCCAAAGTTT AGAATTTCTT TGCTTCATAG TATTATTTTA TTTTACTAAA TTACAGAGTA
AGAAAAGCTT TTCATTTTAT CTGATTTTAT TCTTAGAACA AAAATATTAC GATCTTCTAT ATTTTTGTTC TTTTGCCAAA

AAGTGTAGGC AATTTTACAT CATCTTTTTT CCCAATCAGT TTGTGATCCA ACTATAAAAA GGAGACATAG AATACTGAAT
AAATGAAACA GAAACTCCAA GGCCAAGAAG TGTCCATCTT GAAAGAGTGT TAGTGGCAAG ATATGTGACT GCAGACTAGA
TGTAGACAAA CCTGAGAAAA ACCAAGCATG GGGGAAAGGA TYCCTATTTT AATAAATGGT GCTGGGGAAA ACTGGCTAGC
CATATGTACT TTA

SEQ ID NO:68:   (Length of Sequence = 372 Nucleotides)
GCACGGTTAA AAGACCAACG TGTGTGGNTC AAATATAAAG GCCACACCTT TCAGACCGAA CCTACTCAAA GATCCTTTAC
TTTGCAATAA TTTGAACTGG AGAACCAAAG ACGGGAGACG AATGAAAGCA AAGATGCTCA AAGAACCAAA GGAAAGACCT
GAAGGAATCC ACCTGCATAG GCCACGCGTT CCACTCTGGG TCAAATGCTT CCACGATGCA GAAACCTTTT TTTAAAAAAG
TGCAAGTCTA ATTACCTACC AAGGGTAATA AAAAGCACAG CACAGGAATG ATTACAGCTG ATGGTCAAAA AACAAACCAA
AACCATTAAA AAAACAATCA GGCAGAAAAC AGGAGTTAAA TGTTTACATA TG

SEQ ID NO:69:   (Length of Sequence = 389 Nucleotides)
TCTAGAACCT GGACCCACCC AGCGCGTCCT TTCTTATCCC CGAGTGGATG GATGGATGGA TGGATGGTAG GGATGTTAAT
AATTTTAGTG GAACAAAGCC TGTGAAATGA TTGTACATAG TGTTAATTTA TTGTAACGAA TGGCTAGTTT TTATTCTCGT
CAAGGCACAA AACCAGTTCA TGCTTAACCN TTTTTTCCTT TCCTTTCTTT GCTTTTCTTT CTCTCCTCTC ATACTTTCTC
TTCTCTCTCT TTTAATTTTC TTGTGAGATA ATATTCTAAG AGGCTCTAGA AACATGAAAT ACTCAGTAGT GGATGGGTTT
CCCACTTCTC CTCAATCCGT TGCATGAAAT AATTACTATG GTGCCCTAAT GCACACAAAT AGCTAAGGG

SEQ ID NO:71:   (Length of Sequence = 329 Nucleotides)
GAAAAAATGG GAGGGCAGCC ATGTATTAAT TGTACATCCA AGGAAACTGT GCCCCAGGGG TCTTGTGTGT ATTTCTGAGA
AGAGGGGTGA GAAAAGGCAC TGTGTCAACA TTTGCTTCTG CCTGAACGTG CACCTCCCAG TGCTCCTCCA TCAATTAGGA
GAACTGTCTT GAAGAATGCT GCCTCAGCTT CTGAAGAGAA GACCCCAGGA CATGCATTAA TGAGAGGAGG GGAGTCACAG
CTGCAGAAGA ATAAAGCTCT CTGAGGGAGC CTGGGNGCCC CCAGTGGAGG CCTGGAGCTT GTTGACCANN GCAGCAGGAG
ACCCCTGCT

SEQ ID NO:72:   (Length of Sequence = 418 Nucleotides)
CTGAGTTGCC TGAGGTCATT CACATGCTTC AGCACCAGTT CCCATCTGTT CAGGCAAATG CAGCGGCCTA CCTGCAGCAC
CTGTGCTTTG GTGACAACAA AGTGAAGATG GAGGTGTGTA GGTTAGGGGG AATCAAGCAT CTGGTTGACC TTCTGGACCA
CAGAGTTTTG GAAGTTCAGA AGAATGCTTG TGGTGCCCTT CGAAACCTCG TTTTTGGCAA GTCTACAGAT GAAAATAAAA
TAGCAATGAA GAATGTTGGT GGGGATACCT GCCTTGTTGC GGCTGTTGAG AAAAATCTAT TTGATGCAGA AGTAAGGGAG
CTTGTTACAG GAGTCTTTGG AATTATCCCT CATGTGATGC CTGTAAAAAT GACATTCATT CGAGATGCTC TCTCAACCTT
AACAAACACT GTGATTGT

SEQ ID NO:73:   (Length of Sequence = 336 Nucleotides)
CTGAATTTTT ATATGCTTCA CTTAGGCTTT CATTTGAGTA GACTCTAAAA ATTCTGCCTT GCTTAAGTNC TAACACTGCC
TCTCAGATTT CAGTTTTGGA CATTGCACAA CTAAGACCTT TTAAACGCAT TTNCTTGCTA ACTCGGAAGA CACATAGTCT
GCAGCAAGAC ATTCCTATAT TGAAGAAATG AGAGAAAATT TTATGCTGCA TCAGGTGGAG AGCAAGGCTC AACGGTGGTT
GCATTAGTTC CCTCGGAAGT ATTGAAAAAN CTTTGAAATG GGAAGGAAAA TTTTTTGCAC CTAATGTTCC TGAGGTACCC
AGAATGTCTG GGGGTT

SEQ ID NO:74:   (Length of Sequence = 402 Nucleotides)

GTGCTCAGTA AATACAAATT GGATGGACTA GAGAGATAGC CCCGAGGACA CTGCCAAATA AATAACAAAT TGTGCAAGCA
GCAGGCCGCT GTAATTAGAC CAAGGAGGAC AGTCAGTTAT TAATATCAGA CACGTGGCAG GGTTAACAGC CACTGAGGGT
GGGTACAATG AAGAGAGTCA CTTTCTGCAC CCTCAGGGAC TTCCCTTGTG ATGGCCTTCT AAAGAGGGCT GAACAGCACC
AAGTGCCCTC GCTGCCTCTG GTTCCTGCTG CCCTCCGCGT GCCTTGGGTG CCCCACAACT AGGGCCCTGG GTCCCTCCCA
TGTCCCCCTC CCTCCTACAA CCCCTCAGCC CCTTATCTGG CCAGCCATTA TGATGCCTAT CAGTATGAGG CCAGATGAGA
GT

SEQ ID NO:75: (Length of Sequence = 454 Nucleotides)
GGACCCCGGG CCCGCGATGT GGCCCAGTAC CTGCTCTCAG ACAGCCTCTT CGTGTGGGTT CTAGTAAATA CCGCTTGCTG
TGTTTTGATG TTGGTGGCTA AGCTCATCCA GTGTATTGTG TTTGGCCCTC TTCGAGTGAG TGAGAGACAG CATCTCAAAG
ACANATTTTG GAATTTTATT TTCTACAAGT TCATTTTCAT CTTTGGTGTG CTGAATGTCC AGACAGTGGA AGAGGTGGTC
ATGTGGTGCC TCTGGTTTGC CGGACTTGTC TTTCTGCACC TGATGGTTCA GCTCTGCAAG GNTCGATTTG AATATCTTTC
CTTCTCGNCC ACCACGGCGA TGAGCAGCCA CGGGTCGAGT CCTGTCCCTG TTTGGTTGCC ATGCTGCTTT TCCTGCTGTG
GACTTGCGGC CGTTTGCTCA TTACCGGGTA CACCACGGAA TGCACACCTG GCTT

SEQ ID NO:76: (Length of Sequence = 313 Nucleotides)
GCTTTGATAG CTAGTTGTCT AAAAGTGCTG NTTATTAAAT AATCCACCTN TTTCCCCACT TAAAACATCC CTCTTACCAT
ATACTAAATT CCNGTAGCCC TGGGTCTGTT TCTGGACTCT CCCGTCTGTC TGACCCCCTC CAGGTCACAC TGAGTGAGGT
AATGGTGGCG TGAGAATCCT CTGGGAATCT GGCAGGNTCA CCCCNGAGCA GTCCACCCCN CAACTCATTA NCATCGTTCA
GAGTGGNCTG AGTGNTCTCA CACATTCACT CTGCCAAATG CACTTTAGGA ACTGTCAAAT TCCAAAGTTT CAA

SEQ ID NO:77: (Length of Sequence = 446 Nucleotides)
CTCAGCCGTA GCCCTAAGTC GTTTTTCCAA TTTAGGAAGC TCACAACGCA GATCTGCATT GTCACGTACC AGCTGTTTGT
GAACCTTTGT AAGCTGTTCC AGGTTGTTCT CAAGAAAGGA AATCTTCTGC TTTTGGGAGT GAATCCCCCC ACTGTCTTCG
GGCTCCATTT CTGCACTTTT CTTGACTCGA GTCGTGACGT CTTGAACGAA CAGCTTGCGA AGGTTGTGGC SGGTCTGGAG
TTCCCGGGCA ACTGTCTCCT CCAGACCCTT GAGGTCCTGC TTGTGACTGC TCAATGTCGC TCGTACAGAA ATGTCAGCTC
CTGCAGCTTT GGTGCTCTTC TCGTGGTTCT TCGCTCTTTC AGCTTTCTCG TAGTCAAGCC TGAAGGCTTC TCTAAGCTCT
AACTGGAGCT TCTGATTTAA GGTCTTTTGA GCTCATCAAA TGGTCT

SEQ ID NO:78: (Length of Sequence = 296 Nucleotides)
AGCCGGTGGC GCAATGGAGA GAATGTGCCT GAGACAGAGC GCCTGGCTGG GGAGGAGGCA GCCCTGGGNG CCGAGCTCTG
TGAGGAGACC CCTGTGAATG ACAACTCATC CATCGTGGTG CGCATCGCGC CCGAGGAGCG GCAGAAATAC GAGGAGGAGA
TCCGCCGTCT CTATAAGCAG CTTNACGACA AGGATGATGA AATCAACCAA CAAAGCCAAC TCATAGAGNA GCTCAAGCAG
CAAATNCTGG ACCAGGAAGA GCTGCTGGTG TNCACCCGAG GAGACAACGA GAAGGT

SEQ ID NO:79: (Length of Sequence = 285 Nucleotides)
CCTTTCCTGC CTGGGAAGTG ATGACTCGCA GGTCGGGCTT GCGGCTGGGG GCTCCAAGCT GGGTGCTGTG GGTAGGTGGG
GGCGGAGACT TGGCAGGGAT GACCTTGTTT AGGCTGTTGC CATTGGCCAC AGGGAGGAGG CCAGGGGAAG CCCGAGCACT
GACGTAGCCA TTCCCAACAG GGCTGGGGCA GGCTCCGTTA GCACTGTTCA GGTCACCNCC CAGCATGGCC
CCCCCACTACGCTG GGGCAGGCCA GGAGACACAC TGTTCCTCTG TAGTG

SEQ ID NO:80: (Length of Sequence = 402 Nucleotides)

124

ATGATTTCTT GCCTGTNATA ACCTATGCAC TCACAAAGAT GAACTCTCTG AGAGGGATGA GCAAGAGCTT CAGGAAATCC
GAAAGTATTT CTCCTTTCCT GTATTCTTTT TCAAAGTGCC GAAACTGGGC TCGGAGATAA TAGACTCCTC AACCAGGAGA
ATGGAGAGCG AAAGATCACC GCTTTATCGC CAGCTAATTG ACCTGGGCTA TCTGAGCAGC AGTCACTGGA ACTGTGGGGC
TCCTGGCCAG GGATACTAAA GCTCAGAGCA TGTTGGTGGA ACAGAGTGAA AAGCTGAGAC ACTTGAGCAC ATTTTCTCAC
CAGGTGTTAC AGACTCGCCT GGTNGATGCA GCCAAGGCCC TGAAACCTGG TGCACTGCCA CTGCCTTGAC ATCTTTTATT
AA

SEQ ID NO:81:   (Length of Sequence = 246 Nucleotides)
CATTTTTAAT AGAGACGGGG TTTAACCATG TTGGCCAGGC TGGTCTTGAA CTCTTGATCT CAGGTAATCC ACCCACTATG
GCCTCCCAAA GTGCTGGGGT TACAGGTTTG AGCCTCTGTN CCCGGCCCGG CCAAAGACTG CCTATTCTAA ACGTTGCTGA
GGACGTGGAN CAATCACAGC TCTCCTNTCT TTCCAGTGGG AGTTTAACAT GGCACAACCG CCTGAAAACC GTTTGGNGAT
TTCTGT

SEQ ID NO:82:   (Length of Sequence =394 Nucleotides)
GGGAACCCTC AGCAAAATAT AATGGTACCG CTATTATCAG CCTTGTTCGA GGCCCAGGGA TTTTGGGGGA GGTCACAGTG
TTCTGGAGGA TATTCCCTCC TTCCGTGGGG GAATTTGCTG AAACATCAGG NAAACTGACA ATGCGAGACG AACAGTCTGC
AGTCATTGTA GTAATACAGG CTTTGAACGA TGACATTCCC GAGGAAAAAA GCTTCTATGA GTTTCAGCTC ACTGCAGTCA
GTNAGGGAGG AGTTCTGAGT GAATCCAGCA GCACTNCCAA CATCACGGTG GTGGCCAGCG ACTCTCCCTA TGGCCGATTT
GCCTTTTNAC ATGAGGCAAC TTCGAGTGTC AGAAGCACAG AGGGNTAACA TCACAATCAT CCGTTCCAGT GGAG

SEQ ID NO:83:   (Length of Sequence = 308 Nucleotides)
ATAAGACCAT TGGCAAAGGG AGAATTCATG AACTGAAAGA TCTGAAGTAA TTTCCCAGAA TGTAATGTTA AGAAATAAGT
TAAAAGGCAG AGCATAATGA GTCTAACATG TGTGATTGAA GTCTTATAAG GMGAGAATTA AGAMCAGGCA ATATTTTAAA
GGRATAATGG AGAAAATGGA ATAATTGATG AAATATGTGA ATATATATAG GGACCATATG CATATGAMGG CCGGGGGTTA
AATAAAACGA AATCTACTTG TACATACTTT ATGGGATTCC TGCAGCCCGG GGGATCCAC TAGTTCTT

SEQ ID NO:84:   (Length of Sequence = 313 Nucleotides)
CTTTAACTTA ATGGCAATTA AAACTCACTG GCAAAAAAAA TCACTAGAGA TGTCAGTCCA TTATCTTACC AAATAGTGTA
TTTTTACCAT CTTTTACCTA CACCCTTGAG TAAGGTGGAA TAGGTTAAAG TTACTGGCAT AATAACACTT CATTGAATTC
ATGATAGTAT TTAACATGTT AAAACTGTTT AGTTGAAAAG TTCACATGCA ATTTATAATT TAAAAATATG CTACATATAT
TTCATAAAAW TACAATAGGT CATACTARAC TTTGACTAAA ATTAAGAATG TKTTTCTKTC ATAATAATGC AGG

SEQ ID NO:85:   (Length of Sequence = 303 Nucleotides)
TGCTCCGTTT ATTGCTCTAT TCAATGACCA CGAGCGAATT ATAAAAAGAC ACCAAATGTC TCTGTCTGCC GTGGGATAAA
TATTTAAAGT CAGCAATAAA GTCACGTGGC TCCAAGRTAA TACATGTTGC CAAAGAGTCA TGCATGCCCT CCTGATGGGC
TCTCAACACA CGTATGGWCA TGGGAACACA CGCAGAGCAA CACGCAGTAT GAACTTSTGG GAAGGCTTTA CCACAGTGAC
ACAGTAAAAT GTCTCACGTA GATCTGRGCT GAGTCCCCAC CCAAACCTTG AGCTCCCCTT CCA

SEQ ID NO:86:   (Length of Sequence = 380 Nucleotides)
AAAACAAACC AGCTTTAATA CCAATATAGT TCTCTCTTAA ATACCGTGTT TCCCAGGACA AATGCAGGGG CAGGCTNTTG
GCAGAAAGAG TAGAAAGGAA ATGTGGAACA AAATGGAATG GATGGCCCAG GCCCAGGGTC CCTGCCTTGG GCACTAGGGA
CTGGGCTGCC TCGGGGATGG GGGAGTGACA GCAGCTCCCC CTGGTCCAGT TATTGCAGAG GCGTCGGGGG CTCCCCTCCC

TCCCCAGGCC TGAAACATTT CTCAGGATTA CTTCTGACCT TCAGCCCCAG CAGGGCCAGG GCCTGGGCTC CTCTGGTCTA
GGATGGGCCC CTTTGCCCAA AAGGGCCTTC AGCTAAGGCG TTGGGTTGGG CGGGGAGCCC

SEQ ID NO:87:   (Length of Sequence = 280 Nucleotides)
GCCTTTGCTG CTTATTCGCA TCGATGGTGA AAGAGATGTC AGGAGCACTT CTCTGCTGAG GTGGCTGAGA CGAAGAGGAC
TCTGCTGCCA GCCTTGCCGC ATACCTGGCA ATTAGCCTGT GTTCTTCATC AAGCCGGTTT GAACTCTCAA GCATGCTCCT
GGTAATAAAA GGACTTCCTG AGGAGGGAAC AGAGTGNGAG AACAGGGTGT CGTTCATGCT GGTTACAGGT CTGGGAGGCA
CGATGTGAGC CAAGTTGAGT GGCTTCTCAG GCTGATCTGG

SEQ ID NO:88:   (Length of Sequence = 446 Nucleotides)
CCTGCGTCTC TTACACCCYC TCCCACCCGA GGCTCCCCAG AGATAGCAGA GAATTCGAAG AGGTCGCCGG GGACTGGAAA
GAAGTCCCNG NAGGCCGCCT TCGCAGTCTA CACCCCAGCC TGCTTCCCAG CCTACAYCCA GACCCAGCTC AGACCTTCGT
GACCACCCCA TCCCTTTCTC CGGCTGGCTG GGTCGGGGGC ATCCCTCTCT GTCGCTGGCT TCCAGAGGCA GGACAGGCCT
CCTGGTAAGC CGGCAAAGTT GCTGACCTCC TGACTTCGTC TGCCTTTTAT TAATATCTGT ATTGCTGATA ACCGTGCTCT
TGACTATGTG TCCCAGGTCA TGTCCCAGGT CATGGAGAAG CCCGTGCCAC AGTGACCCTT CCCATACTTC TGGGGGGGCT
GCTCTCCATC TGGATCGTAG GAGGATATAG GTGTGTTCTG GACCAT

SEQ ID NO:89:   (Length of Sequence = 384 Nucleotides)
GTCCCTTCTG GGGACTCTRT TTCCCCATTT ATTGCTGCTG TGTCCCTNAC CAGTTCCTTG CAGGATTCCC TCCTTTTAAA
ATGCCCTTAA ATCTAGCTTT GCCTTGGAGA CCCCAGTGGG TGCTGCTCCT GCCGTTTTCT TCCTGCCAAG CCTGAATCAA
TGTTTCATCT CCAACCCTCT GCCAGTTTGG CCCCTCAAAG CTTGGTGGCT CAAGACTGTW AGCCTGGCAG AGCCGCGNGG
TGAAGGGAGA AGCTCTTGGA GCAGGCAGGA TGCCACCGCT GCTTCAGCTT GCCTCCTCGC CCAGCTACCC TTTGGCCCCA
TTGGGCCCTC GTMTGCCTCT CCAGGATTGT ATGTTTCAAG NCTTGTCCTG TGTTCCTTTG TCTG

SEQ ID NO:90:   (Length of Sequence = 344 Nucleotides)
TCAAGCTGGA AAGGGCTACT ACCTCATGCT GGAAAGGGCT ACTACCTCAA GCTGGAAAGG GCTACTACCT CAAGCTGGAA
AGGGCTACTA CCTCAAGCTG GAAAGGGCTA CTACCTCAAG CTGGAAAGAG CTACTACCTC AAGCTGGAAA GGGCTACTAC
CTCATGCTGG AAAGGGCTAC TACCTCAAGC TGGAAAGAGC TACTACCTCA AGCTGGAAAG GGCTACTACC TCAAGCTGGA
AAGGGCTACT ACCTCAAGCT GGAAAGAGCT ACTACCTCCA AGCTGGAAAG GGCTACTACC TCATGCTGGG AAAGGGCTAC
TACCTCAAGC TGGACAGGGC TACT

SEQ ID NO:91:   (Length of Sequence = 364 Nucleotides)
GCCCCAGGGT GAGGGCTATG AGGGGTCAGG GGTCAGGTTC CCCAGGACCC TAGTCCTTGT CCCCTTCCCT GGTGCTAAAT
AAAAGTGAAT AAATACTAAA TAAATACAAC TGGGGCCCAG GCCCTCCCTG CCTTCCCCCT CCCTCCTGTG ACCCGCAGCA
GAGGGGGCAG TTTAGATGGA GGGCTGTCTG TCAGCCCCTT CCATCCACTA ACCCATCACT GCCTCCCAGG GCAGGAAACC
AGGGCAGGGC CAGCCTGCGC ATTAGGGCAG AGAGGAGGGG CAGGTCTCAC GCCCACAGCC CCTTCCCACT TGAGTCTTAG
CATGAGGCAG CAACAGAAGC TCTCTCTTCC TCCCAGCTAA GTCC

SEQ ID NO:92:   (Length of Sequence = 218 Nucleotides)
ATTTAATAGA AAATTAAAAT AATAAATAAT ATGAAACAGA CTGATAACGC TGAGCTGGGC AGGCCCAGGC CAGTCTAGTA
CAAAGTTAAG GAGGTAGGGA GGATGGTGGG GAGGAGGGGG CGGACTACCC TGCAGGACGC GGGAGGCTGC TCAGACTGTG
GTGATGTCAG GAAGGGCCGC ACACTTTGGC ATGGACGATG CACTAAAAAA AGAGAAAG

126

SEQ ID NO:93:   (Length of Sequence = 364 Nucleotides)
GCTTTCAAGG GAACAAAGAA TCGGCCTGGC AGTGCCCTGG AGAAGGAGGT GGAGAGCATG GGGGCCCATC TTAATGCCTA
CAGNACCCGG GAGCACACAG CTTACTACAT CAAGGCGCTG TCCAAGGATC TGCCGAAAGC TGTGGAGCTC CTGGGTGACA
TTGTGCAGAA CTGTAGTCTG GAAGACTCAC AGATTGAGAA GGAACGTGAT GTGATCCTGC GGGAGATGCA GGAGAATGAT
GCATCTATGC GAGATGTGGT CTTTAACTAC CTGCATGCCA CAGCATTCCA GGGGCACACC TCTAGCCCAG GCTTTGGAGG
GGCCCAGTGA GAATGTCAGG AAGCTGTCTC GTGCAGACTT GACC

SEQ ID NO:94:   (Length of Sequence = 423 Nucleotides)
CTTCATACTA GAACTGTCTG CCATCTTTAT TTCTTTGTTT TCAGGAAAAT TGGAGAGAAA AGTATTTCTT TTTTAAAAAT
GATTATTATA CTTTAAGTTC TGGGATACAT GTGCAGAACG TGCACGTTTG TTACATAAGT ATACACGTGC CATGGTGGTT
TGCTGCACCC ATCAACCCGT CATCTACATT AGGTATTTCT CCTAATGCTA TCCCTCCCCT AGCCCCCCAC CCTCCAACAG
GCTCCAGTGT GTGATGTTCC CCTCCCTGTG TCCATGTGTT CTCATTGTTC AACTCCCACT TATGAGTGAG GGACATGCAG
TGTTTGATTT TCTGTTCCTG TGTTACTTTG CTGAGAATGA TGGCTTCCAG ATTCATCCAT GTCCTTGCAA AGGCATGAAC
TCATCCTTTT TATGGCTGCA TAG

SEQ ID NO:95:   (Length of Sequence = 405 Nucleotides)
AACAGCCCCC GATCTGCATA GCCTGTGAAA GCCCACGGGG ACATCAGTAA CCTTCTGCAG CCACCATCCA ATGCCATTAC
TGTNAAGTGA GACTTGGCCA CTGTAGCCTG GGCCTGCTGC AGGAGCTCTT CAGAAAGGCA CATGAGGACC ACGGTTTGCC
TCAGTTTCTG GTAAAACACA AGGTCTGGAG TGCCCCTGCA AAGGGTATTG ATGGACTTCC TGCCAGTGAC AGAGCATGTC
TATTGCAAAC AATTCTCTCA GTTACGTTCA GCACTTAAGA ACGGCTAATG NCAATAGGAT CTTTAGCAAC TTTTTCACAT
CATAGAAGGT GCAATCGCTC ACTTGGGAAC ACTACTGAGA GTGACTTCTC TTTTAAAATT GAGTAGCAGA TGAAAAATTA
AAATT

SEQ ID NO:96:   (Length of Sequence = 173 Nucleotides)
GAAGACAATA CTGATGCCAG CTCTTTGTAA TTGTGAAATC TGTACCCAAA CCTCTGGATT AGAATCTCCA GTTGTCTACT
GTAAATACTG GAATTACAGC AAAGGATATG GGGACTGGGC TGCTTTTCTG TATTGTACAA GCACTATTCT AGATATTAAA
GAAATTTAAC CGC

SEQ ID NO:97:   (Length of Sequence = 337 Nucleotides)
ATGGCGCCCT ACAGCCTACT GGTGACTCGG CTGCAGAAAG CTCTGGGTGT GCGGCAGTAC CATGTGGCCT CAGTCCTGTG
CCAACGGGCC AAGGTGGCGA TGAGCCANTT TGAGCCCAAC GAGTACATCC ATTATGACCT GCTAGAGAAG AACATTAACA
TTGTTCGCAA ACGACTGAAC CGGCCGCTGA CCCTCTCGGA GAAGNTTGTG TATGGACACC TGGATGACCC CGCCAGCCAG
GAAATTGAGC GAGGCAAGTC GTACCTGCGG CTGCGGNCGG ACCGTGTGGC CATGCAGGAT GCGACGGSCC AGATTGGCCA
TGCTCCAGTT CATCAAG

SEQ ID NO:98:   (Length of Sequence = 212 Nucleotides)
TGAAGCCCAA GNAGTNTGTG AAGACAGAGA ATGACCACAT CAACCTGAAG GTGGCCGGGC AGGACGGCTC CGTGGTGCAG
TTCAAGATCA AGAGGCACAC GCCGCTGAGC AAGCTGATGA AGGCCTACTG AGAGAGGCAG GGCTTKTCAA KGAGGCAGAT
CAGATTCAGK TTCGACGGGC AGCCAATCAG TGAAACTGAC ACTCCAGCAC AG

SEQ ID NO:99:   (Length of Sequence =: 26 Nucleotides)

127

CCTTTTAATA ATAATTCTGC TGTCTGCTGT GTACTAGAAC CCATGCCTAC TGCTTGGGGT ATAATGTAGT AAATGTAGTA
AAAACAATAT CCGCCGGGCG CGGTGGCTCA CGCCTGTAAT TCCAGCACTT TGGGAGGCCA AGGAGGGCGG ATCACGAGGT
CAGGAGAGCG AGACCATCCT GGCTAACATG GTGAAACCCC GTCTCTACTA AAAATACCAA AAATTAGCCA GGCGTGGTGA
TGGACGCCTG TAGTCCCAGC TACTC

SEQ ID NO:100:   (Length of Sequence = 333 Nucleotides)
AAAATGCTCA CAGTGGTCTT CTCTGGCCGG TGAGCCTACA GCTGATCTTG TCAGAGACAA ACGTTAGTTT TACTGAGTCA
CCCAGAGCCC TGTGCTGGTG CCTGAGGGTT TGTTCCATGG GACAGTCTCC ACAATTCCTC TGGGGAAGGG CCACAAATCC
CACAGTGTGT CCCAAGAGGG CTGGAGTAGG CGGAGTCCCC AGCAGCTGTG GCATGACCAG CCATCTCTCT CAAAACAATT
GTTAACAAGC CTTCTGCAAG TTAAGGTTCC ACATGGTAGC CGTGGTACAG AGGCATTTCT CTAGGGTGGG AGAGGCTTGT
GCTCTACACC AGG

SEQ ID NO:101:   (Length of Sequence = 156 Nucleotides)
CTCTGACTTT CCTGTGGNTT TAGAGCCAAG CTCAAGGTAG TAGGCCGTAG GGNCTTATTT TATTTTCAAA CCCCCATCCT
CAGAGCCGCAG ATACATGCAG AGGCTTCTGC CAGGCTACCA CGGGGCCTTA GTGGGAACAG GTTGAGACCA GCACTT

SEQ ID NO:102:   (Length of Sequence = 331 Nucleotides)
CGAAAAGGGG NNNTATGGCC ATCTTTTATC AGAAAAAGTG ACAAAACGGG AATTTAAAAA ATGAATTTTC NNTCTGACTT
TATTTNNAAA TACACTTTCT TTTTTNNAAA ACCAATACAC TTTCTTTGAG GATGACAGTA TTAGGAAATC CAATTNNACA
AAAAATACTA CATCTAGTCT GGGGTAGATA TATTTATTTT TGGTAACATA CATTAAGTGG CACTAATTAC ACAGTAACTA
TAAGGTAACT AACATGAAAC CACAGAACTG TAACTCTGCC ACAGCTGCAT GAACTTGGGC TTTTCTGGTT GAGCCCATTT
TCAAAAAACT G

SEQ ID NO:103:   (Length of Sequence = 316 Nucleotides)
AGCCACTGCG CCCCACCCCA TTTCGGTGTN ANCTCAGCTC ACTTCAACCT ACCCCTCCCA AGTTCAAGTG ATTCTCCTAC
CTCAGCCTCT TGAGTAGCTG GGATTACAGG GGTCTGCCAC CACGCTGGGT GATTTTCCTA TTTTTAGTTG ACACTGCATT
TCACCAGGTT GGCCAGGCTG GTGTTGAACT CCTGACCTCA GCTGATCCAC CCGTCTCGGG GTCCCAAAGT GTTGGGATTA
CAGGTGTGAG CCACCACACC AGGCCCATAT TTTCTTTTAG ACATGCAGGC AATGTTGGTG GGTTTGTCTG TTAAGA

SEQ ID NO:104:   (Length of Sequence = 308 Nucleotides)
GTTTTTCCTG CATCTATTGA GATAATCATG TGGTTTTTGT ATTTGGCTCT GTTTATATGC TGGATTACAT TTATTGATTT
GCGTATATTG AACCAGCCTT GCATCCCAGG GATGANGCCC ACTNGATCAT GGTCGATAAG CTTTTTGATG TGCTGCTGGA
TTCGTTTTGC CAGTATTTTA TTGAGGATTT TTGCATCAAT GTTCATCAAG GATATTGGNC TAAAAGTGTG CTGTATTCAG
GAAACCCATC TCACGTGCAG AGACACACAT AGGCTCAAAA TAAAGGGATG GAGGAAGATC TACCAAGC

SEQ ID NO:105:   (Length of Sequence = 355 Nucleotides)
GGCCTTCCTC AATATGTAGG CGCCACTTTT TCTCCCTGTG CCCTCACCTG GTCACCCCTC TGTGCGCGAN ATCCCACTGT
CTCTCTGGGT GTCCAAACTT CCTCTTCTTA GGAGGACACA AGTCAGATTG GATTAGGGCC CACCCCAATG GCCTCATTTT
AACTTAATCA CCTCCCTTTT GTTTGGGCTT TTTAACTTAA TCACCTCTTT AAAGACCTTA TCTCCAACTA AGGTTTCATT
CTGAGGTATA CTGGAGGTTA AGACTTTAAA ACACGAATTT GGAGGGGACG TAATTCAGCC CATAACAATA ACAATAATGA
CATCTTACAA CTTACTGCCA CCACCAAGCT TGCTG

SEQ ID NO:106: (Length of Sequence = 355 Nucleotides)
GGATGAGGTC GCCGGGATCG TGGCTGCACG CCACTGCAAG ACCAACATCG TCACAGCTTC CGTGGACGCC ATTAATTTTC
ATGACAAGAT CAGAAAAGGC TGCGTCATCA CCATCTCGGG ACGCATGACC TTCACGAGCA ATAAGTCCAT GGAGATCGAG
GTGTTGGTGG ACGCCGACCC TGTTGTGGAC AGCTCTCAGA AGCGNTACCG GGCCGCCAGT GCCTTCTTCA CCTACGTGTC
GCTGAGCCAG GAAGGCAGGT CGCTGCCTGT GCCCCAGNTG GTGCCCGAGA CCGAGGACGA GAAGAAGCGC TTTTAGGAAG
GCAAAGGGCG GTACCTGCAG ATGAAGGCGA GGGAC

SEQ ID NO:107: (Length of Sequence = 273 Nucleotides)
GTGTCTCTTT TAAAGAAAAC ATACTTTATT TTGGTCTAAA TTGTGAAAAT ACCCAAAACA TTTGATAGAA ATTGAACTCT
GTCAACAGTG TTATTTATAC TAAGATCAGG ACAGTTCCTT GAGATCATAC TGTTTTATTA CTAAGTTTGG CCTTTGTTTT
ACAAATGTAA TGTTCATATT TATTTGAATT TTAAGATTGG TTAAATGTTA ATGAAAAGCA ATCCAATTGT TANTTTTTAG
TAGTGCCTTT TCTCTGTATG CCTTAATTTT ATT

SEQ ID NO:108: (Length of Sequence = 359 Nucleotides)
ATTTTATTTC CTTACATCGA AGAAAATGTT AAAGAGTATC TGCAGACACA TTGGGAAGAA GAGGAGTGCC AGCAGGATGT
CAGTCTTTTG AGGAAACAGG CTGAAGAGGA CGCCCACCTG GATGGGGCTG TTCCTATCCC TGCAGCATCT GGGAATGGAG
TGGATGATCT GCAACAGATG ATCCAGGCCG TGGTAGATAA TGTGTGCTGG CAGATGTCCC TGGNTCGAAA GACCACTGCA
CTCAAACAGC TGCAGGGCCA CATGTGGAGG GCGGCATTCA CAGCTGGGCG CATGAAAGCA GAGTTCTTTG CAGATGTAGT
TCCAGCAGTC AGGTAAGTGG AGAGAGGCCG GGATGAAGG

SEQ ID NO:109: (Length of Sequence = 360 Nucleotides)
TTTATNAAAG CAGTTAAACT TAGCATTAAA TAACACTCTT TAAATGGTAC ACCTATGAAG CAAGAGTTAA ATATAAACCC
AGTCTAATCC TGTACACTTG TGATTAATTG TGACAATCTT AAGTTGCTCA CTTCTTTCCC ATTTACCAAT TCAGAGAAAG
CCCGTTTCCT GTTTTCTCCT CACCACTTTG CCTTGGCATC ACACCAACCC TGCCTCGGGC TTCAGCTGCA GATCCTCCCC
AGCCCCTCCT CCCAGCTGGG CTGACTCCAG TCCCAGCCCC AGTCTCCACC AACTGAGCAG CGTACGCAGG GTTGTGTCTG
GCTTCCAGCA TCTACCAACC CTTCAGAGCA ACTT

SEQ ID NO:110: (Length of Sequence = 364 Nucleotides)
TCTCAGAGGG GCTCTGGGGG TCATTCAAGG GGGACTTCTA GCTTCTCTCT GGAACCCTTT GTCCAGAGCA AAGCCAGGTT
TCCAAGGTCC CCACGGCAAG GCTGTTGGGT GCTGGCAGCA AGAGGTACAC AGCAGTTCTC CCAGCTCACA GCAGTGACCT
CAGATCTCCA GCAGCAAGGG CCGCACTCTC GTGCCCACAA GGGCCTTGCA GAAATNCTCC GGTCCCTGGG NCTCCCCCGG
CAGGAGGGGC GGGGCTCCTG CCTGCAGTGA GGCCACAGCA CTAAGCGGCT TCAGTCACAT GCTTTTCAGG TGAATCACTC
CAAATTCAGT GAGGAGGGCC ACGACAAGGA AGTTCAGGTA GAAG

SEQ ID NO:111: (Length of Sequence =455 Nucleotides)
TTTTTTTTTT TATATTTTAA ATGGAATTTA TTCTATCAAC TGCCTGAGAG GACACAATGG GGGAGGGGCT TCGGACCACA
GCAGGAGCCC CGACTGCCCA CCTGAGGGCA GGGAGAGCCT GACCCCATTG GCCCAGGCCC TGGCTCTGTA ACCATTAACC
TCTTCCCCCA ACTAACACCA ATGAAAACAC CATTCCACGT GACTGGGCTG TGTGTTTGCC TCTGTGACAT GGGGACCCCT
GACCCTAGGG GTCTCGCCTG AGCCAGACCT GAGGGACCCA CCCGCGTAGG ATGGAGGAAG GTTTAGGCCT CCCTTTTGCC
ANCCTACTCC GGGGGGTGGG GCAGACCCTG GGAGTGGGCC TTACAGACCA GCCACAGGTA TTTCTTAGGC AATTTGACAC
ATTTTATTAC AAAACCAGTC TACATTCATT CCTAAAAGGG TCATTTTCAG TAAAA

SEQ ID NO:112:   (Length f Sequence = 398 Nucleotides)
CTGATCTGAC AGGAGGTGTA GGTCAGGCAG TAATGGAAGT SATGGGGAAC AGCTGTAAAT ACAGATAAAG CTTTACTCAC
TCGCCCACCC ACTGCTCATC TCCTGCTGTA CTGCCCAGTT CCTAACAGAC AGCAGACAGC TACTGGTCTG TSGCCCAAGG
GTTGGGGACC CCTGACATAG ACTAAACAAT TCACAATGTT TATATTAAAC AACTTATTCC AAGTTTCCAT TTTAGACTCT
GGAACATCTG ACATGGTGAA TCCACAGGTA GTAAATGGGA AGGGAGATAA CAGACAACTT GACGGCCGTG GAAGACGCAC
TGGGCGGGCA CTGGTGACGG GTCTCGGGAC AGACTTCACA TCTCCAGACT GGCACAGTGG GCTCACACCT GCCTCCCA

SEQ ID NO:113:   (Length of Sequence = 444 Nucleotides)
ATCAGTGTCA GTGTCTAACA GAAGGGTCTG TTAAGGATGC TTCTGATTTA ACCAAAAGAT TAAGCTTCAG AAACAATCTA
ACATACTCAA AGGAGCACCA AATTATCAAC CGGCTACAAG GATGCAAAGG ACCTAAACAA CAGATGTCAA AGGGCTTGTA
AAAACTGGAG CCAGCAACCA TTCCACTTGA AGGAATCCAT CTCAGGGAAA TGCTGGAATC CACACACAAA AGCAGGTGTG
CAAATAATCA CTGCAGCACG CCTTCTAATA GTGAACAACA GAGGCAATCC AAATATCCTT CAACAGGGAA CTGAGTAAAT
ACCAACTATG GGCATATCCA CATAAGGCTC TCTGCAGTCA TTAAAAAGGA TTGCACTTAC ATGCATGTCT GCCATGGAGG
TCTTTCAGGC CAATGGTTCC ACTCGGAAGG GCAACCACCA ATTA

SEQ ID NO:114:   (Length of Sequence = 472 Nucleotides)
TCGGGCCCCA ACGGAGACCT GGGGATGCCG GTGGAGGCGG GAGCGGAAGG CGAGGAGGAC GGCTTCGGGG AAGCAGAATA
CGCTGCCATC AACTCCATGC TGGACCAGAT CAACTCCTGT CTGGACCACC TGGAGGAGAA GAATGACCAC CTCCACGNCC
GCCTCCAGGA GCTGCTGGAG TCCAACCGGC AGACACGCCT GGAGTTCCAG CAGCAGCTCG GGGAGGCCCC CAGTGATGCC
AGCCCCTAGG CTCCAAGAGC CCCCAACCGG GACCCAACCC TGCCTCCCTG GGGCTAAGCT CTGGCCTGGG GCACTCACCC
CCTGGCTTAG ACAACTTCTC AAGGGCTTGG CCTTCAGGGG ACCCTTGTGG GTCTTGCCTT GCTGGGGCCA CCTTTTCTTG
CTTGGGGCTT. CCCCTTTGGC CTACCTTGGG GCCAAGCCCC TACCAACTTT GGATTGCCTT CTTGGGGGCC AA

SEQ ID NO:115:   (Length of Sequence = 293 Nucleotides)
CTNGGGGCCA TGTGGCTGAT TTCCATCACC TTCCTTCCAT TKGCTACGGC GACATGGTGC CCCACACCTA CTGCGGGAAG
GGTGTGTGCC TKCTCACTGG CATCATGAGA GCTGGCTTTA CCGCGCTCGT GGTGGCTGTG GTRGCTCRCA AGCTGGAGCT
CACCAAGGCT GAGAAGCACG TGCACAACTT CATGATTGAC ACTCAGCTCA CCAAGCGGGT AAAAAACGAG GCTGCTAACG
TTCTCAGGGA GACGTTGGCT CATCTACAAA CATACCAGAG CTGGTGAAAG AAG

SEQ ID NO:116:   (Length of Sequence = 448 Nucleotides)
TTTGAAAATT TAGAGGATAT TTATTTCTCA GGAAGGTGCA CAACAGCTGG CAGGCACTGC TTTCCCTGCT CTAGGGGATT
CCTCTCTCCT TTTCCAAGAA ATCCCCTCTC TTCTTAGAAG TGCCCATGGG AGGCTGGGAT GTGAAAAGAA ACCATACACA
ACACTCCAGA GCCTTAAAAA AATAAAGCAA CAACCTCCTC CACACGAATA CACTTACAAA ATAAATAGAC GGATAAAAGA
GAGGCCACGT GCCTCCCATC CCGGCTGTAG GGCTGCTTGG GGATAGTGGG GCTGGGTGGC TCGGTCCCAC TTCTCCCAGC
CAGGATGATC CAAAGGCTAA ATGGGATGGA AGGGCCCTGG CTTTCAGAGA GAGGGTGGGG CAGGCCTCTC CTGGTACTCA
GCAGGGAGGA CACTGGGGCA CGGGTAGGGG TCCAAGGGCC ACTTAATA

SEQ ID NO:117:   (Length of Sequence = 551 Nucleotides)
GAGACGGAGG CTCGCTCTGT CCCCCAGGCT GGAGTGCAGT GGCGAGATCT CAGCTCACTG CAAGCTCCGC CTCCCGGGTT
CACGCCATTC TCCTGCCTCA GCCTCCCGAG TAGCTGGGAG CCAGCGCGCC CAGCCTAAAA AACTTTTCAA GTCAATATTA
CTACGATTTA ACATTAGAGT GTGGACATGT GATTTAATCG CTATAGCTAA AATACCTCAA ATATACGTTG TCATGTGCTT
GAACATGATG CTAACCCTGA CAGGATGAAG GAAAGTAATA TTCTTTCAGT GTAGTTCAGG AGAGCATTTG TTTTCTTTTC

TACCAATTAA CCCATCATTG CTTTTAAACA ACCATCTGAA GGAGCAGAGA GGCAGGGTAG AAGACAGAAG GGGGTCTATG
TGGGTACTAA AGATGTTTCT GTTTTGTAAT ATTGTGTGTG TGTGGGTTTA TGGTTTGCTT AAGGGATCAA AACCTGGAAA
AAATGGGATT CCAGGAATGG CTCTGTTATT TTTGCTGGGT TCCAGCTTGT AATGCCTACT GCCTTGGTTC A

SEQ ID NO:118:   (Length of Sequence = 426 Nucleotides)
CCCCACCCCA AAATCAAAAC TGAAGGTAGT GTCAGTGTAT ATATGGNGTC CCTTGTGCTG AAAGTCAAAG CAGCTTCATT
TTGGGGCCTC AAGAGCTCCA GCTCTGGGCT CTTCACCTCT AAGCCCATGG GCAGTGCCCG CCCAGTGGTG TGTATAGATC
GGAGGCTGAG GGCCTCACCC TTAGCTGAGC TGTCGCGTGC TGGGGAGCCT GTGCAGGAGG GTACAAGTAG GAAAGTGCCA
TCTGCATGGG AAGAAAAATG CAGCGTCCTT GGTAGTGCGG ATGGGGTCCA GGAGACCCAG GGAGCTTGCC CAGAGGGACC
TGAGTGGCAT TCCTGTAGGA AAGCAGCCCA GATCTTGGGG CCGTAACGGA TGTTCTGGAA GTTTTGACTT TGAACCACCA
GGTCCCATTG TTAACAAGCT TCTTGA

SEQ ID NO:119:   (Length of Sequence = 434 Nucleotides)
TTTTTCGGTT AAAAAGGCCC AAAACTTTAT TTAGTTTTCA GGGAAATATA AGATGCATGT AAACATAAAA TACAAAACAA
AACCCAAATC TTACAGTCTA GAAGCATGCC AAGACAGAGC ATTTTCTGCA GACCAAAGAG TCCCGTCAAA GTGATAAAGG
ACACCTGGAA AGTGGCAGGC CAAGGGGCTG GTCCCTTCCC CAAGGGCACT GCATTTTTGT GATGAGATTA AAAACAAACC
AACTCCACTA TTAAAAATGC TAGAAACATG GGATAGTTTA GCACCACCAT TGATTCTGGC AAATATTTCA GCACTCACAT
CGACTGCACT GAGTTTAATG TCCTTTCTCC AGTTTCTCTG CTGAGGAGGG AAGGAGGGAA ACCTGGGCGG AAGGGGCTCC
TCCTGACCCC ACAGGGCCAC TAGGAGCTTG GAGG

SEQ ID NO:120:   (Length of Sequence = 276 Nucleotides)
AGGAAGTGTT AGCAAATGCT ACCATGTGGA ACACTCAACT TTATTTGCTT TATTTATATA TTTAACAATT CTAAAGTATT
TACTTCTTGC TTTGACAAAA AATGAAAAAT ATAGGGGCAC TGACTGACTC CTCTTTAGGA GAAAAGGGTT ATATGTACAG
CTATGGAGAG TTACGGTTCC CCCTTTAACA AAGGCAAATA TTAATAAAAA AGGGCTTCAT CGGTCAAAAA AGGGCTAAGA
GCTGCAAGCA TTTATTCACA CTGTACATCG GGCCCC

SEQ ID NO:121:   (Length of Sequence = 554 Nucleotides)
ATTTCTTTCC TTAATCATAT CTGATGCTGG GATGTGGGTA ACCCCAAACT GAAGGCAGCT GCTAAATCTC AAATGCTAAA
AAAATACTGC AATTTTGACA TCAGTGAGTC AGATCAATAC ATCCTCTGGG GCTGATTTTG CTTCACAGTT AGGATGAGCC
ATCTCTTAAG CTGCAGGCTC AAATGGGATT AACTGAACTC TATACCTGGG ATGGGCCATG GACTGAGCTG TCCATGCAGA
AGGACCAGGC TGTCCATGCC TTCCCTGCCC TTTTACTCAC CACTGCACAG CAGCCCCAGT GGGCCTACTG CACATGTCTA
GGAGAAATCA CTCTAAGAAA ACCAACAGGA ACAGGCTTTA GGCAACAAGA GACGTCTCAC TGCATCTCCT CCCACGTCAG
AACTTGAGTA CTGGGTCTTT GCAGCTCAGA GCATTCCTCC CTTCCCTTTC CTGCCCGAAA GGCCTGCCTT TTCCTGAGAC
ATATGGCACT CCATGCTGCA AGTTTCAAGC AGATGCAGGT TCTTATGGGG CTTTTTGCTC AAAGAGCTTT GGTT

SEQ ID NO:122:   (Length of Sequence = 238 Nucleotides)
CACCTAAGCA GGTAGACATC CGCAAAGTCA GATGCTTTCC AACATGACAC CTGAACATCT TCCTTTATGC AACACCCAAA
CATCTTGGCA TCCCCACCCC AGGAAGTGCG GGGAGGAGGT TATGATCCCT GGGCGCTTCG GCAGAATGGA GAGCTGAGGT
GTCCCTCCCC TGCTAGTCAC CTACCAGGTG TCTGAGCAGC TGCATGCTCC CTGGCTCAAG TGGGCACTGT ACCTTTTG

SEQ ID NO:123:   (Length of Sequence = 244 Nucleotides)

131

ATCCAGGCTT TCATTTCTAG CCAACCCTCA AACACCACCA ACTACAAAGA AAATTTAAAA GTCTAATTTG TAACCTTCAG
ATAAGTATAA ATTAGTTTTT TCTAGGCTTT CATTATTTGG CTTCTTATAC AATCTATCTT GTAAAGTACA TTCCTCTAAA
TTTACATTAT CTAAAATTAA GGCTAAGCAT TATTTAAATC ANTTAATCAT ACAATATTTT ATGGCAATAT GCACATATTT
ATAA

SEQ ID NO:124:   (Length of Sequence = 330 Nucleotides)
CTCAGCGTAT CATAGGCGTG CTCACCCTCC TCCCCACGCT CCCGCCCCGC AGGCAGGTGG TGTAGGATAG AGTGGTGCAT
GAAAGGGGGG AAGCCCGAGG GGCCCGCTGG GAAGGGTGCT GCCCCGTAAA GGGCATCCCA CTGGCACTGT GCCTCANCTG
CCGCTTTCTG CTTCAGCTCA GCCAGTCGCC GCCGCTGCTC TTCAATCACT TGTTGTCCCT TCTGCTGCAG AGCTAGTTGG
CGCTTTGGTC TCGATGTCCT GCAGTGTGGC TGCCAGGTTG CAAGGAAGGC TGCCCGGTGC CATTCTGGGG GTGAGTAGGA
GCGCTCTTTT

SEQ ID NO:125:   (Length of Sequence = 281 Nucleotides)
CCTCTCTCCC TTCGGTTCTC CATTTACCGA GCCACAGTAT TTCTTAAAGC TCGTTGGCAG CCTGCACCCT GCTTATTCTT
GGGAGACACG AGTTTGCATC CTATTACAAC CCATAGTTTT TGCATAACCA TGGTGAGAGG AACCATCCTT CCCAATCCCA
ACCTCAACCA AAGCTTAGAA AAAGTGCCAT CNTTAACCTT TCAGAATCAC TCATAAGTAA ATCCTATAGC AGTCTCTGCT
AATGCAAATT TCAATGTGTG CCCGCTTATT AGGTGACTTT T

SEQ ID NO:126:   (Length of Sequence = 266 Nucleotides)
CTTTTAATGA TGTGGTTCTG GTGGGATTTA TAAAGGGAGA TGGACCCCTG GNAAGATGCT TTCCTMAACC ACAACCCACA
CATTGGGTCA CCATTTCCTC TTCCTCCTCC TTCTGTGGGT GGCCGGAGAC CTGTAGGACC TTCCCTCCCT TTAGGGTTCT
GTAAGGCCCC TTNTCAGTCC TCAGAGTCCA TTCTTCTCTT GTGCTGAGGG CCTGCAGTGG GGACCATATA CTTCTGGTGC
TCTTAGTTTG CTGTCGCGTC TGTTTT

SEQ ID NO:127:   (Length of Sequence = 435 Nucleotides)
GTCTGGTTCT ATTCATTTTG TAGTTGCGAG AAAAGGAATG AACCGTGACT ATGGCAATTC ACCGTGACGT GTGATAATTT
AGTTTGCTAT GAGTTTTCAC TCTTAGGTAA AACCTAGTTA TCCTAATTAA TAATTAGTTA TGGATGATAT AGTAATTTTT
TTTTTTTTTG ACTGCGTCTC ACTGTCATTC GGGCTGGAGT ACAGTGGCTG ATCACAGTTC GGTGCAGCCT CGACCTCCCT
GGGCTCAGTG ATTCTCCTGC CTCAGCTTCC CAAGTGGCTG GGATTATGG GCATGCACCA TCAATGTCTG GCTAATGTTT
GGTGTGTTTT TTTATAAAGC CAAGGGTTTT GCCCATGNTT CAAGACCCCG GGGCTGGTCC TTGAACCTCT TTGGGGCTTC
AGGCAAGTCC TCCCACCTTC GGGCCTTCCC AAAGT

SEQ ID NO:128:   (Length of Sequence = 471 Nucleotides)
TTCCCTTCCC AAGGACTCGA CCTGAGAACC GCCATGTACT CGGAGATCCA GAGGGAGCGG GCAGACATTG GGGGCCTGAT
GGCCCGGCCA GAATACAGAG AGTGGAATCC GGAGCTCATC AAGCCCAAGA AGCTGCTGAA CCCCGTGAAG GCCTCTCGGA
GTCACCAGGA GCTCCACCGG GAGCTGCTCA TGAACCACAG AAGGGGCCTT GGTGTGGACA GCAAGCCAGA GCTGCAGCGT
GTCCTAGAGC ACCGCCGGCG GAACCAGCTC ATCAAGAAGA AGAAGGAGGA GCTGGAAGCC AAAGCGGCTG CAGTGCCCCT
TTGAGCAGGA GCTGCTGAGA CGGCAGCAGA GGCTGAACCA GCTGGAAAAA CCACCAGAGA AGGAAGAGGT TCACGCCCCC
GAGTTTATTA AGTCAAGGGA AACCTTCGGA GATTTCCACA CTGACCAGCG AGAGAGAGAG CTTTAGGGCC A

SEQ ID NO:129:   (Length of Sequence = 186 Nucleotides)

GCCTTTAACA TCCTCTGCCA ATRACTGGCC TCAAATCACC AGTGGAACCT TTTCAAAAAA TACACCATTG GCTCTATGTA
GTTCTACTGA TCTRAAATAT CCACGTGTGG GCCAGGAGCA CTGGCTCATG CCTGTAATCC CAGCATCTTG GGAGAGCGAG
GAAGGAGGAT CATTTRAGCC CAGGAG

SEQ ID NO:130:   (Length of Sequence = 307 Nucleotides)
ATAAAATACT TAGGAATATA CCTAACCAAG AAGGTGAAAA ACCTCTCCAA GGAAAACTAT GAAACACTGC TGAAAGAAAT
CATAGACTAC ACAAATACAT TTCATGCTCA AGGATGGGTA GAATCAATAT TGTGAAAATG GCCATACTGC CAAAAGGGAT
CTWCAAATTC AACGGTATCC CCATYAAATA CCACCATCMT TCTTTACAGG NTTCGGAAAA GGAATTCTAA AATTCATATG
GGACCCAAGA CGGGGGCCGC ATAGCCCATG GCCGGCTTAG S :WAAGGGA CAAATCTGGG AGGCCTT

SEQ ID NO:131:   (Length of Sequence = 184 N   eotides)
CCAGGTTGGA TGGAGTGCAA TGGCACGATC TCGGCTCACT : :ACCTCCC AGGTTCAAGC AATTATCCTG TCTCAGCCTC
CTGAGTAGCC GGGATTACAG GCACGTGCCA CCACACCCAG CCAATTTTTG TATTTTTAGT AGAGACGGGG TTTCACCGTG
TTAGCCAGGA TGGTCTCAAT CTCC

SEQ ID NO:132:   (Length of Sequence = 270 Nucleotides)
GCNGGAGGGC GTCGAGGGCC AGGAGCTATT CTACACGCCC GAAATGGCTG ACCCCAAGTC AGAACTMTTC GMGNAGACAG
CCAGGAGCAT TGAGAGCACC CTGGACGACC TCTTCCGGAA TTCAGACGTC AAGAAGGATT TCCGGAGTGT CCGCTTGCGG
GACCTGGGGC CCGGCAAATC CTTCCGNNNC ATTGTGGATG TCCACTTTAA CCCCACCACA GCCTTCAGGG CACCCGACGT
GGCCCGGGCC CTGCTCCGGT AGATCCAGGT

SEQ ID NO:133:   (Length of Sequence = 529 Nucleotides)
CTTGCAGTAC ATAGCATTGT TATTACTGAT AGCTTTATAA ATCTGCCAAA TAACATAGAA TGTAGCCTCA AAAGGATGGT
CGAGGGTTCG CAATCTTTCT TTCTCCACCC AGTGGTGTGG AGCAACTCTG TGCCTTAAAG AGGGCACCAT GGAAAGAAAC
AAAAAGGAAT CTCTTTCAAA ATGCTGGAAA TTAGGCTTAG CTCACTACTT TCAGGATAAA GACAACTGCA TCTAATTAAG
TCCACTCCAC ATTTCTTTGG ACTCTAAGTA TTCTGCACCT GAAGGCTAAA TTGAACTGGC TCAGCCCTAT CTTTTTTGCC
ACATCTTTAA TTACAAATCT ATTTCTTCTT CCTTTCATTT ACTTCTCTTC TCTTAAGTAA GAAATGTGGG AAAATGAGACT
GGCAGTTTGG TTTGTTTGCA TGTGGGTGTC CATTAGGCGT CTCATCCTAT GGCCCTTTTT GGAAATGTTG CCTTCCTACT
ACACACCTGG GAGGTTTCCC CAAGGCTCAA CCTTTTTGCT TCAGGTAAA

SEQ ID NO:134:   (Length of Sequence = 437 Nucleotides)
GACGGTGGCG ACGCGTGCAC CGGGGATGTG TCCTGCCACC AGAGGGAGGTG TGCGTGGCGG GGAGCAGAGG GGCTTTGTTT
CCCAGGTGAA GGTGCGGCTT CTTCACTCTT AGAGGTGCGT GTGTGGGTGG GGGTGCTTGC TGTTGAGGTT TATGCCTGTA
ACTGACAGCT GTCCCCCAAG CCATGCTGGC AGTGTGTAGG TGTCGTGCCG GCCACCGCAG AGGAATCCTC TGGGCTTCTG
TGGTTCAAGT GGGGCCCAGC GCAGAGCTCC ATGAGTTGCT GAGCAGCCAG CCCTTCAGCA TCTCCTGGGT TTTGGCAGCA
GGAGGCGTCC CCTTGTGCAA TTCAGGGGGC CGTGGGGGCT GGGGGCACTC GTAGCAAGGT AAAGGAGCCC CTGCTCAGGC
CCTTGTTTGC TCCCCTTTCT TGCAAGAGGG GTAGACG

SEQ ID NO:135:   (Length of Sequence = 534 Nucleotides)
GGCATTGTTC TGGTVGGTGT GTCACGCTCC CAGAAGACTG AATTTATGGT AGGATCACTC GCAAGGCCTT GTGA^SCNST
CTTACCTAAA ACAAAAGAAA TATCAGGGAC TTTTGTTGAC TATTTACAAC TCAGTTTTAC ATTTAAATTC AGGCAGTGTT
AATATGCCAA GGTAGGGAAT GTGCCTTTTT CAGAGTTGGC CAGGAGCTCC TGGCTGGGAC ACGGAGAGGC AGGTGTGGCG

TAAGGCCTCA CTCCCGGCTG TGAAGGTCTC TGATCACACA GAAGCAGCCC TGCCCAGCCT GGGTCATTTG CTGTCCGCTT
TTCTCTGTGA CCACAAGCAG CCCTGAACAA CCAGTATGTG TCTTCTTTCT CCAGATAGTG AAAAAGGGTG TCCAGATAAA
CCCACCTAAG TGAAATGGGC CATCCTCTAA ACTGGGGTAC CTCACTGCAC AGGTTCTAGG TAGGCTTTCC ACTTAATCTA
ACTTGAGGCC TACAGGTACC CTGTAAAGTT AGTGGGGCTT GTCCTTGATT GTGG

SEQ ID NO:136:   (Length of Sequence =279 Nucleotides)
CAGTTTGGAC AAAGTAGCAT AGTGACTTTN TTCCTACANT GACTTTCGGA GAAGTTNGCA GTTTCTGGCA AAGTGACGCT
GGGCTGTTTG AAAAAGGCAA GCTTAGCCTA GGCTGCCATC TTAAAACATT TCGAGGCTGT AGCTTCCTCA GGATCCTTTG
CCTGTGGTCT GGTGGCCGGC AGTGCCCCGT CTAACAGCTT TTAACTCTGC ACTTAGTGCC TGAGCACCTA TGGCTGTGAG
AGATGCTAGA TACAGAACCC TGTCCTGTAC CACGTGGGG

SEQ ID NO:137:   (Length of Sequence = 518 Nucleotides)
CAAATATTTA ATGGAGATCT TCCTTGTTGG TCTGTTATAT GTCTATCCGT TTCTGGGTGG TTTAGGAGAA TCTGTACTAT
TTCAGCATGT CCTCCTCCAG CAGCAAAATG AAGAGGAGAA CTAAGTTGTC CATTTAAAAG GTTTGGATTG CACTTTCCTT
TCTCTAACAA TATGCGAGTG GCCTCAACTT TTCCATACCA GCATGCATAA TGAATGGGTG CCCAGTGGTC ACTATCTAAC
TGGTTGACTG AAAATCTTTC ACTGAGAAGA CGGCTTAGTA ATTCTGAATC TCCTTCACAG GCGCTTCGGT GGAGAGGAAA
ATCATCTACC CACTGTCGTT CCTTGTCTTC TGTGACACTG CTCATGCTTC TCTGCCAGTT TTTCCTGTTT AGGGTATTTG
GATTTTTGAG TAGTCTGGAG CTCCTAGACC CAAGTATGGA TTTATTACCC ACTTATCTAC CCGATTTGTA TACTGAGGAT
CCTATCCAAC AAAGGGTGTA AATCCAGGAT CCGCCTTC

SEQ ID NO:138:   (Length of Sequence = 266 Nucleotides)
GATTGCAGGC ATGANCCACT GCGCCCAGTC GAGTGGTAAT ATGTTMAAAG GAAACCTTTT TCTGAGCAGG TCTCAAAAGA
GAGGTTAAAA TACTGAGTAG ACCATMCTGT AAACAGATGT MCTGTTATYC GGGCTTTCAT ATTCCATTTA TAAAGCACAG
GCAGAGCTCA GAGTAGATTT AAYGTAACTC TGAAGGGCAC TAGGATTTTC AGAATGGTAA ATAAGCATTG GCTTCACCTT
AAATYCAAAT CTGCATTGGG CTTGTA

SEQ ID NO:139:   (Length of Sequence = 341 Nucleotides)
ACCTCGCTCA CCGCTCTGAC CACCGACAGG CAGAGCAAAG GATGCGGGAG TTGCCTCTGC TGCCCATCTA AGGGGACGTA
GGCAGAGAAG CAAAGGCCTC TGCTCTCCCT CCATCCATCC CGGTGTGCTG GCCCCAACGG AACAGGAGTC CTTCAACTAT
TGCCTGCCAG AGACCCAATT TTAGGGACTG TAGTCTGCAT CTGGATGAGC TGGGCTGTAG ATTGAAGTCT CAGAAGCAGG
GAAGGTTGGA AGGGGTAGGG TCCCAGAGCC CATGGAGTTA TTGCTGAGAA GATATGCAGG GGACACATTT CCCAGGGGCA
GAGTAGAAGC CCTGGGCCTT G

SEQ ID NO:140:   (Length of Sequence = 234 Nucleotides)
GTGAAGGGAG TTGCAGAATC AAATTGCTAC ATAGGCCAAA CAAAAAAGAA GGCTTTTTCA AAAAACATTA AATTCACATG
CAGTCTCAGA GACTATTTAG GCAAAGTTCA AGTTAGGAGC TTTTAGGATG TGGGANTAAA ACTTTAATKG GAGGGGAGGG
CTTGCTTCTG GAGAAGGAAG AAGCCAGACT TGTTAGACAG TACTCTTAAC TCCTAGCCCA GCCTAGCGTG CCCT

SEQ ID NO:141:   (Length of Sequence = 354 Nucleotides)
CFACRAGGT TAGCAACTGC AGGAAAACTT TCTTCATTTT CACTGAATTT TAAAGAGAGA ATCCTGTCTC TATTTCTCAG
AGAAACTTAC GTGAAAAGTA AAAGAGAGGC AAAATCTCTT TCCTTCATGA GATACTTTTA TTTTTATCTC TTTCTCTACT
CATGTGCTTA ACTGGTGAAA TGATTCTGTA GAAATAGATC CTTCTGATTC TGCATCTCAT TTCCTTATGG CAACTACAAC

AGGAGGAATC CAGCTGGAAA TGCCACTAAC CCCACATCCA GCACCTGAGA GAGGAAGCCA GTCGGAGCGC CGTGCTGGGC
TCACTCACTC TGGGCCTGCG CACTGGGGTT GTGG

SEQ ID NO:142:   (Length of Sequence = 373 Nucleotides)
GTTTTTGCAA CACTTTTTTT TTAAGTTATT GGGTGCAAAA TCCCAAACCA GGATATGTGT ATGTCTGTGT GTTTATGTTT
TTNATTTGAC CCTCCCCTCT TTCAACCTAC CCCCTTTTAT ATCTAATGTA GAAAAAGCGA AATTGAATCT GGAAAGCAAA
CTGTTGTATA TAGTTGCGGT AACAATCATG AAGAGAGAGC CGGGCTGTCC AGTTGTTTTT GAGACAGAGT CTCACTCTGT
TGCCCAGGCT GGAGTGCAGT AGCATGATCT TGGCTCACTG CAACCTCCCC CTCCCTGGGT TTAGGCGATT CTCCTGCCTC
AGCCCTCCCA AAGTAGCTGG GATTACAGAC CCGTACCACC ACAACTGGGC TAA

SEQ ID NO:143:   (Length of Sequence = 262 Nucleotides)
CCGCACCTCG GCCAGAGGCG GCTGCAGCAG CTGCTMCCTT TTCCCTGCCG CCGCCTCTCC AGTCCCTTTT TTAATTACCA
CTCCAMCTGC TGGGAACGGG CGAGAAAGAG GAGGAGGCGA GAAACTCCCA CCGACCCACA GAGGGAGCAT GATTTCGGCA
ACTTCACCTA TCATTCTGAA ATGGGACCCC AAAATTTTGG AAATCCGGAC GCTAACAGTG GAAAGGCTGT TGGAGCCACT
TGTTACACAG GTGACTACAC TT

SEQ ID NO:144:   (Length of Sequence = 384 Nucleotides)
GGAAAAGCGG GACCCAAACA GTGGTGCTGG GGAAATTTTT CCCTGTCCCC TTTGGAAGGC TGAGTGGGTG ATGCAGCACA
GGAACAAGGC TTGGACGTCA GAGGTCTCAT CTTCACTGTN ACAAAGCATA AAGGACTTGG GGTTGAGCGT GTGTNTGGGC
TCAAGTGACC ATGCAAGTCC TGTCACCTCC TTCCTAAGAC CCCATCCTTC TCCCAAGTCC TCCACAAGAG CTACCTTCTT
CAAAACAATA ACAGAAACAC ATCAAGCTTG GGCGTCACTG AATTCAAGTT CTGATTTCTC CCGTCACCCC AGCAACAGTG
CCCAGTTTGA TTGTGACACT TTGACCCAGC ACTTGGTTTT GAATGTTCTT TTCGGCTTGT ACCG

SEQ ID NO:145:   (Length of Sequence = 324 Nucleotides)
CTACATGGAA TCATAAGTKT TCCTAAAAAA GGAAGACAGA TTTGAAGACA GAGGAGGAAG GTGATGTGAT GATGGAAACA
AGGGGAGAAA ACGCAATGTG ATGTGGCCAC GAACCAAGTA ATGAGGACAG CCTACAGAAG CTGGTCAAGG CAAGGAAACA
GATTCTCCTC TAAAGTCCCT GGAGAGGGCC TGGCCATGCT GACACCTTGA TTTTKTCCCA GCAGAAACTC ATTTTGGATT
TCTGGCCTCC CAGAAAAGTA AGGGGGTAAT GTGCTGTTTT ATGTCAGGTT TKGGGTAATT TGTTTATTGC AGCCATCGGG
AAGG

SEQ ID NO:146:   (Length of Sequence = 355 Nucleotides)
TTTGCCTCCT TCCTTCCTTA TCCAAGCAAG GGTGTGGTGA CAATGACCTG ATCGGGGTTT AACGCCGGCT CTGTCTGCTC
ACCAGACCTG GGGTGCTGAG CTCTGACCAG CCTGGGCAGC CCAACCCACA GGAACTGCGG TTTCATAGCT GGGTCTTCAG
GAAGGGGTGG AGGCTTTGGG AGTGGCAGCT CCCCGCCTCC CACCACCCCA AGCCAGAGAA TGGGCAAAC TTGTATGCAT
GGCTTATCTC TAAATTACTA ATCTGCTTCG GACCAGACTC ATCTCTACAG TATAGAGTTA GAGTTATTGC TTCTATGACA
GGTGTTCCAG AAGCCCTGGG TGGCTTTAAA GTCTG

SEQ ID NO:147:   (Length of Sequence = 337 Nucleotides)
CAGTTTTCTG AGTTCCCGTG TGCTAGACTG GCCAGAAGAG AGGGTCTGGG GCCTGGTCAC TCGGCCACTC TCTCCTGTTT
CTGGCCTCTT CTCCCTTCAC TCCCGTCCAG TCTGGTTTTG AGAGCAGGGG CTGTTCTACA GCACCTCAGG GAAGGGAGGA
GAGATACCTG CTGCTTCCAT TGCTTTTCCC TTCCTGGAGT CGATGCCTTT CTAAGGGTTG GAGCTGCTCC TTGCAGGGGC

GGGTCAGTTT CCCAGGCCAT GCCGGGGGTG GCCATCTATG CTAGGGCTGG AAGCTGAGGC TGGCCGCCAA CTGTGGGGCT
GGGGTGGGGG TGGGTGG

SEQ ID NO:148:   (Length of Sequence = 278 Nucleotides)
GGAATCAGAT GCTCAGGTGT CCAAGCAGGG ATAAGGACAG GCAAAATAAA TAACCCGCCC AACCCCCATC GTCACTCTGC
TGCAACACGA CACAAAGGTT TAAAGATCTG GGCCCAAAGA CTCTGGGACC CTTCAAGCAA GTCAGGTGGA AGAAGGTTTC
CCCACCCCCC ACCAGGCCTG TTTGTCCCAG GTTGCCCTAG GATGGAGGCA GTTCAGACCC TGGGTCACTG ATGCTTGATA
GGAAGATCTT TGATATCAAT GGCCTAAGCT CTGCTCAT

SEQ ID NO:149:   (Length of Sequence = 368 Nucleotides)
TTTTTTTTTT GTTTTCAACA AACTTTACTA AATAACCCTG GAAAGGCAAT GAACGATCTG ACAATTTAAG CTCTAATGAT
TTAAAGCTCA GCTAGAAGAA AGTGAGGCAT GACATATACT GTCAACGGAG GGTGAAGGAG GCAGATTTCT GGAAATGCAA
TGATCCCACA CATTTGCTTC AAGGAGAAAC CTGCAGACAT ATTTTCAGGT CTTGCTAAGT AACAACTGTT TATTTGTAAT
CAATACATTT GGGGAAAGTC TGCTATGTAG CTAAGGTCAC TGTGACCACA GACCAACAGA TGGAAAGGAA AAAGGCACTG
GACCAGCAAG GAAAAATACA TCCCCATCCT CAAAAGAATT TTAAGGTG

SEQ ID NO:150:   (Length of Sequence = 367 Nucleotides)
TTGTGAAATG GGCCTGGGTA GATAAGGAAA AGAACCTCCA AGAGGTTAAG TGATTTGCGG ATTTGCCTAA ATTATACAGA
AGAGTCAGCA CCAGTGCCCA GGCCTTCTGA TTCTTAGTGC AGTAAACACT AAGCACCATC ATTCCATTTC ACCACACTCC
TGTCTTGCTG TTGTCCTCAG CTAAGAAAGC CTACCCCTGA GTTACCCTCT TCCATCTTAG AGCCTTCCTG CTCGCTGTCT
GCCCCCCTGC GATGGGGACT TCTTTGGCCC TTCTCACCCA GCCCAGCCTC TGCCCGTTTT CCTTCTCCTT TCCACTGCGG
CTGAGCTCTT TTCTCCTTCC GAGAAGCCTT TCCTTCATCT TTCCTGG

SEQ ID NO:151:   (Length of Sequence = 366 Nucleotides)
CCCAGCGGGC CGCCTCCCTC CTCTCTCCTC CATAGGTGGG GGTTGTGGGC CTTCTTTTTT TTTTTGTCTT GGAGGGCAGT
TAAACTTCTC CATTTGCCTC TCTCTTCACA CCCAAATGCC AAAGGACACT TTTCCTTTCT TTTGTGGGTA GTTGCAAAAA
AAAAAAAATTC CTATGGGTTA CTGCCACTTT TAAATACTTT GTAACTTAAA GGCAAAGTAG TATGTCACTG TTTCTTTTCC
CTGTAGTTTA CTTTTGAGGT TAAACATCTT TCCATGTCTT TATTGGTCAA ATACAGTTCC TYCTTTTGTA CAATGTTAAT
CCTAATATGG ACCATTTTTC CTAATGGGAT TACCGATTTT TTTAAA

SEQ ID NO:152:   (Length of Sequence = 269 Nucleotides)
GTTATTCTGG CAAGTGCTTT CAGGGCCCTC CAGGGTTTGG CTGGTCACCA TGGAGGGGGG GTTCAGGTGC TGAATTTAGG
GACCCCAGCA TCTCACAGGT TTCCCCTTCC ATCTTTCCCA GTGGCACTGT GTCTGAGCAG GTGTGCCCAG GTGAGGTTGT
ATCCACTGTG TCTGAGCAGG TGTGCCCAGG TGAGGTTGTA TCCACTGTGT GTGAGCAGGT GTGGCTGTTG CAGGTGGAAG
TGGGGATATN TGGGCACCTG GGTGCCATT

SEQ ID NO:153:   (Length of Sequence = 260 Nucleotides)
TTTCAGGATT TTATTTAAAA TTTATTGTAA TGGGGTCCGC GCAAAAGGAA GGGGTGGAGG GTGGGGTACA TGCAGGGGAC
ACAGGAACAN GATCCACATG GCCAGGGNCA CAACTTCTTC TCTCGTGGGG AAGAGGGATG AAAAGACAAG ACCAGGGCTA
NGAGCTGGGG TGGAAGAGGG GAGGGGNAAC ACTGGCTGCA TTCCCCNAAC CCCANGANGC ACCTATAGGC CCTGGACCCA
TGGGTCACCC TGGGCCCTAG

136

SEQ ID NO:154:   (Length of Sequence = 405 Nucleotides)
TGGAACTTGT GAGTGGGGAC CCATGATGTA TGGGTCTCAC CTGACTTGAG GTGAATTTTG GAGTGAAGGG CCCTGAGGTC
AGCTCCCAGG TCGGTCGTGC TGGGCCAGGC CTGGTTTTCA CAGGGGCTGA AGGATCCCAG TCCACCTGTG TGCATGTCAG
GGCTCGGCCG GGAAGAAGCC AGCAAAGTCC CCCGTGTCCC TTGCTGAGTA TTCTGTCACA GACAAGCCTC CATTAAAGCC
ACAGCAGTGC TACCCACCAC ACACACCTTG CTGGCCCGGC CACCACTGCT GGCTTCAGCC CCTTNAGCAG CCCATGGNTT
AGCAGACCCT CAGATGTAGG TCAGTGGCCT TANCTGTNTC TATCCATGCT GTTAAACTCC CTGCCTCCAA CTGGGGGTCA
CCAGT

SEQ ID NO:155:   (Length of Sequence =: 40 Nucleotides)
CCATGATCTT ATTTATTACA TCTAGTTTTT CTTTATACCT CTAAAAAAAA GTGCCTTTTA GATTTACAGC TTGTGCTTCT
AAAGCAAAGG TTAAAACATC ATGCCCCAAA GGAAAACAAG GTAAAAAGGA AGCTGCCATA TAAGCTCTTA AAANTTGTAT
GTTACAAGGT TCTAAAATCT CTTCAGCACT GGTTGGTTGG TAGATTGTAC GACACTGACA TGGTGCTTGG GAGGGTCATT
TATCTGATGG TTGGAGCAGC ACCATGGGAA AGCTGCCCAG ATGGTCTACT GAAGTCCTTG GCTGTGCACA GAATGGGCCC
AAGGGCCAGN AATTCATGAG TCCGGGGAAC TTTGGNGGTC CTTACTCAAT CTCCTTAGTG CTAAAGNTTC AGAGTCTCAA

SEQ ID NO:156:   (Length of Sequence = 443 Nucleotides)
GTCCTCTGGA TTGCTTCGTT GGTTGCGAAC TTTAAGAATG GCAAACTGTG ATTGGNTCCG ATTAAGACAA GCTTTGTAGT
TTTCTTCGTG TAAACACCAA ATCCCGCCTG GGCCATGAGG TAGCAGAAGT GGGCCGCATC CAAGAGGCCC CTTGAAGCCA
GAGTGTCGCC CATGGTAGCC ATCGTCCTGG ACTCGACGTC CATGTTGTTG TTCAAGTTGG ACAAGACCAT GGCGAGGTGC
GGCCTCCAAT CTCCCCATTT CTCGTCTCCA CAGCACGTGG ACGCGGCAGG CATCCGTCCG GACATGAGCT GGTAGACTGT
CTTCAGAGGG TCGTTGATTK GGGAGGCTTT TTAGCAAACC TKGGTCATGA CTCGGGCGTG TGTCCGGCTG TTCCATCTTA
CTTGCAAGTA GCAGAGCGTG ACCCCACAAG GCCATTCTTA ATT

SEQ ID NO:157:   (Length of Sequence = 383 Nucleotides)
ATTGGAAAGG GTTTTAAACG GAGTCGGAAC CTGAGTAGAT TTCCAAATTT TACAGCCAGG ACTACAGAAG TGCATCATTC
TAGAATGTGT AGACCTGAGT AGCTTATACA CTACAGAGCA CTTTGCTTAT TTGAAAGTAA TTCAGCAACA GGTCACTTTG
GGATATAACC TGAACCTTTT TTTGGAGTGG GGTGGGTAGA CTACAGTAGA CACAAGGGCT GGACATGCAG ATGCTTAGGG
GATTAGCGTT TTTCATAATT TGTTCTGTTT GTCAGTTCAT TCCTGTGTGT TCTTACCTCT ACAAAGGTAC ATTACACATT
TTARGTTTTT TAGTGACCTT TAACCATGTT ACTTGAAGCA TTTTGGAATA TAAAGCTATT TTA

SEQ ID NO:158:   (Length of Sequence = 241 Nucleotides)
TGGTSTGTGG CTCAGCTGCA GCGGCASGTA AGTGGGTSTC CAGGGGAGTG GACAAGCAAT TCTCCTGTCA TTTGCAACTT
TCTTCAGGAA CTCAGATAAA GAACACTTGG ATAACGATGA TCCCTGTAGA GGGATTTCAT CTGTACCATC ACACATGGAA
GAGGAGTTTC TAGGTCAGGA AAGGCAGCTN CTAAGCTAAA GGTTTCTTGG TCCCTTNGTC CTGGCATGCC TTAAGGAGGG
G

SEQ ID NO:159:   (Length of Sequence = 224 Nucleotides)
CTGTCAGTAA TGGCTCACTA AAGGGCCAGC AGTTTAAATT ACACAGGTTG CACTAAAAGC TGCAGCTTTG GCCAGGCAAG
GTGGATCACG CCTATAATCC CAACACTTTG GGAGGCCGAG GCGGGCAAAT CACCTGAGGT CAGGAGTTCA AGACCAGCCT
GGCCAATATG GTGAAACCTA AGCCTCTACT AAAATTACAG AAATTAGCCG GTCGTGGTGG CACA

SEQ ID NO:160:   (Length of Sequence = 377 Nucleotides)

GGAGGCTGAG GCGGGCGGAT CACGAGGTTA GGAGATGGAG ACCATCCTGG CTAACACAGT GAAACCCTGT CTGTACTAAA
GATACAGAAA ACTGGCCGGG CGTGGTGGTG GGTGCCTGTA GTCCCAGCTA CTTGGGAACT CGGGAGGCTG AGGCAGGAGA
ATGACCTGAA CCCGGGAGGC GGAGCTTGCA GTGAGCAGAG ATTGCGCCAT TGCACTCCAG CCTGGGCGAC AGAGTAAGAC
TGTCTCCAAA AAAAAAAAAA ATAATAATCA AAGCTCTTGG ATTTATAGTT TGGTCCCCAG CCTTGTTTTG ATCTTTCCTT
TATCCTGTTT TATTGCCATT TACCACGTCC TTTTGGAAAC ATCCCTTTCA ACTGCTG

SEQ ID NO:161:   (Length of Sequence = 273 Nucleotides)
GCAGCGGCGC CGGGCGAGGA GGCGGCAGGG GCGAGGAGGG GGCGGCGGGT GGCGACCCGC AGGAGGCCAA GCCCCAGGAG
GCCGCTGTCG CGCCAGAGAA GCCGCCCGCC AGCGACGAGA CCAAGGCCGC CGAGGAGCCC AGCAAGGTGG AGGAGAAAAA
GGCCGAGGAG GCCGTGGCCA GCTCCGCGCT GCTAGGCCCC CTTCGCGCGC GCCCGGCGCG CCCCCGGAGC AAGGAGGCAG
CCCCCGCGGA GGAGCCCGCG GNCGCCGCAG ACT

SEQ ID NO:162:   (Length of Sequence = 286 Nucleotides)
TTTTGGTCAA ATAAATCAGA GTACTACAAT CATCAAACAT CTGATTCATT TAACATGTGA GCATCTATAC CTGCCCATTT
GTGTGAATAT TCAGTATATA TCTCATACCT ATTCTCATGC CTTCATTTAT TGTGGTTATG GCTGTAGATA TGGAAAAAAC
AGTAGCTGAG ACATTTTTAT TATGAACTAT ATTATACCTT AATCAATCAG TCAGAAAATG CTTAGGAAGA AGAAATGCAT
GATTGTAAAT GCATGATTTC AACATGCTAC CCGGCCAACA AAGTTG

SEQ ID NO:163:   (Length of Sequence = 342 Nucleotides)
TGCCCAAGGA AGACAGAACA TGGAGAACCG TCAAGGCAGG AACCCCACAG ACTGTCCCTT CCAGCCCACA CTCTGCCACC
TCCTGGCCCT GTCCCAATTC TGAGCCAAGG CCTCCCCGAG GCAGAAGTTG CCTGGTCCTC TGTCCCCACA GTGACCTGAC
TGGGGGTGAG GGAGAAGGAG GAGAGAGCCC ATGTGTGGTG TGTGTGCCCC TGAGAACTTC GTGGTGACTG CCTTTGGGAG
CCCGCAAGTG GCCAGAGGCA GGGGTAGCTG AGTTCCTGGG AGACCCCTTT TTTTCCCCCA RGTTCCCCAG AGGGCAACGC
CATCAGTAGC AGTGTGGTGT TT

SEQ ID NO:164:   (Length of Sequence = 392 Nucleotides)
ATTACCCGGG CCCCGCCTCC CTAAAACAGA TCTACGGACC TTAACCGACG CCATGCTGAG GCTCATTCCA TCCCTGCRGA
CGTATGCAGA GCCGCTCACT GCTGCCATGG TGGAGTTCTA CACCATGTTA GGAGGAATTC ACCCAGGATA CACAACCTCA
CTATATCTAT TCACCCCGTG AAATGACTAG GTGGGTGAGA GGCATCTTTG AAGCGCTGAG ACCTCTGGAG ACCCTGCCTG
TTGAAGGCCT CCTTCGGATT TGGGCACATG AAGCTCTGCG TCTCTTCCCA GATAGACTCG TAGGGGATGA GGAGAGGCGT
TGGGACTGAA TGAGAAGATC GACACGGTTG CTCTTGAAGG CACTTTCCCT AACCTTCGGC AGAGAGGAGG GC

SEQ ID NO:165:   (Length of Sequence = 406 Nucleotides)
GTTATAATTA TCTTGTTTTA TTATTTATTG TTTATCTCTT ACTGTGTATA ATGTAGAAAT TAAACTTTAC CATAGGTATA
TACATATTGG AAAAAGCATC TTATATACAG GGTTTGTTAC TATCTGTGGT TTCAGGCATC CACTGGGGGT CTTGGAACAT
ATCCCTTGCA GATAAGAGGG AACTGCTGTA TCCATAGAAT AAAAACACCC CATCTTGAAG ATAGGAGGTT CTGTAAATTG
GGATGGGGTC AGGGAATCTG AATTTTAAAA GTTTCCCATG TGATTTGATG CCCAGCCAAG GGCTGGGGAC CACTGTCTTG
AAATATAATG CTGAGGAAGA TACTGTCTTT GGATTTTCCT GGTAATTCCG AGTGCAAATT CTCAGGCTGG AACCTTATGG
GCCTTG

SEQ ID NO:166:   (Length of Sequence = 453 Nucleotides)

GAAAACTTTG CCATGGGTCA GTTTTATTGG AAGTTCATTT TCCTGAATGT TTGGAAGAAA GTCTAGTGAC TCAGGATAGC

ATTTCTAATT TCACAGAGTT ATTTTTCCGT TATGAAACAC AGATTGCCTT TGAGGTCTCC TGTTTCTACT ACTGCCCCTC

ACTTTTATGT GGGCCTCCTC TTTCCTTTGT TTCTGGAGAA CCTTTTCCTG TTCAATTCTG TTTTAATTTT CAGCAGTTTT

TTTTCTGTGT GAGTGAGGCT GTTTCCTAGC AGGGAGGTCT GGTTGGTCAT TTTCAAGTTC ATCAGGGCTT CATCAGGGCT

TGTCCACTTC AACCCTTACG CTATAGGNCC CTNTGCACCA TCTGCANTCT TCAAAATGTG CCCACTGGTT CGTTCCCATG

GANGGCTTGT TGGTAATTTG GGCTTTTAGG GGGGGCCATG GAAGGAGCAA ATC

SEQ ID NO:167:   (Length of Sequence = 285 Nucleotides)

TTTACTCTTA AAACTGTTAC AACAGAATCA TGGACTGACA CAGGTAATGG CTGAGCCATA AGCAAATCGA GAAGTACAGA

AATGTCCCAC CCCAAACAGC TGCGGAGTAC ACATCACACA GGGCCTCTGG TCCCGGCCTT CTCAGGTGCT CTGGAGTGGA

GGATCCTTTG AGGGAACTCT GACCACTCCT GTTGTCTACC TAGAGAGCAC GCCACTTGGG CCACCTACCC CCAACCTTTG

GCCAAAGGAG TGAAAGGACC TGGAACCTGT CGTCAACCTC AGCAT

SEQ ID NO:168:   (Length of Sequence = 327 Nucleotides)

CTAGAGGGCA CTCTGTATAC CCGTCAGCTC CTGGAGCCAT TCATTCTATG CTGGGCAGAC AGGCTGTGAG AGGACATGGG

GGACGGTGGA AAGGNTCCAA AGACGAAGCT GTNGTTTATC CTTGTTGGTT TTACACAGGG AATGATGAAA CATTGAAGGG

GTTTAATAAG CTTTTTCCTAA AACATTTTCC CCCTAAACAG GCTGGCACTA TGTCGAAGCT GCCCAAATTT GAGATTGATT

TACCAGCTGC GNCTAAGTCA ACTAAACCCA NGCCTTTCCG AAAGAGACAT CGCAANTGGC TTACCCAANG TANTGTCCCG

TTTTCAG

SEQ ID NO:169:   (Length of Sequence = 346 Nucleotides)

GGTGCTATGG AGAGCCGGCC GTCCTCCAGG GGTGAGCTGG GGAGGCTTCT GCGGTTCTGG AGTCCCGGCG ATGGCGCCAG

TTCCCCAGCA AACCCCCTCC AGAGCTGCCC CCGGATGCAC AGACAAGGAG GGGGCTTGGG AGTGACTTGA GGCTGTGACG

GGRTCGCCCT CGGTGTGGGC AAGTGAGTCC TCTGTGGCCA AGAGGTCAGA GTCGTCCCTG AGGCTGAGTC GAACACAGAC

CCGTGGCCCT CATAAAATTA AACATAAAAG CACAAAAATG GGCGCAACCA GACAGCATTG GCTTTCAGAC AGGCAGGGAC

ACGGGGCCC CTTCGTGTTG ACCTGT

SEQ ID NO:170:   (Length of Sequence = 398 Nucleotides)

TTGACCTCAA CTTACTGAGC AATGCCGTAG CTATGGAATA GAAGCATTTG TTGCACTCTT TTTGTGAGCC AGGCCCTGTA

GGAGGGATTG TGGATGGCAA AACCTCAGGT TCTGCCCAAA TCCTCCCCTT GGGGGCTGGA GGGTCTCTAG TTAATTGGCA

TTCCGGTGCT TAAGGCCACT TTTGGGTAGA GGTTTGGCAA GGATGGAGTG TCCAGACCTA TGATCCTCTA AGAACTTTAC

CTTTTAAAAA CAGCCACCCA AATGGTGGTG GCGTGGGGAG CAGGTGGTGG TGAAGGGACT GGGGGTGTCT GGCCATKGCC

ACGTACCAGA GGAGACTCTG TGAGCCCTCT CCCTGCCTGA GGGACACTTA ACTTTTATAG CACTACATAG GGTCAACG

SEQ ID NO:171:   (Length of Sequence = 321 Nucleotides)

AGACAGCATC TGGCTCTGTC ACCCAGGCTG GAGTGCAGTG GCGCAATCTC GGTTCACTGC AACCTCTGCC TTCCAGGTTC

AAGTGATTCT CCTGCCTCAG CCTCCCAAAT AGCTGGGATT ACAGGCATGT GCCACCATAC CCAGCTAATT TTTGTATTTT

CAGCAGAGAC GGGGTTTCAC CATGTTGGCC AGACTGGTCT CGAACTTCTG ACCTCAAATG ATCTGCCCAT CTAGGCCTCC

AAAAGTGCTG GGATTATAGG TGTGAGCCAC TGCGCCTGGC CCTTGGGTAA ACACTTCAAA TGCAMCCAAC CATTAAAGGT

A

SEQ ID NO:172:   (Length of Sequence = 293 Nucleotides)

GAAACTTATA GTCTTGCCTC CCAACCTTCT GAACACTCCA GTAGAAAAAT CTTCTCGCCT ACCTTTATCA CCCCACGACC
TACTAGCATT TCTTACTCTC AAAAAAAATC TTTTCTGAAA AATCAAGACA GAGTGCAAAC AATCAGCATA ATTTTATTAT
GACARAACTT TTAAATTTTA TCCCCCTCTC TGAGAGKTCT GCTAGGACTC CTTCAGATAA GTGAAAAAGA AAKTTTTTAA
AATTTATTCT CAAATCCGAA TTCCAATCTG TATAAAAAGG GCGATTCTCC CTC

SEQ ID NO:173:   (Length of Sequence = 282 Nucleotides)
GCTTGGTCCC GTTCCTCAGG AAAAGGATGG ACCTTCTCTT CTTCTCAGAT GGTCCCTTCC ATTCCCCTGA AACCTGCATG
AGAGCTCCTA ACATGTTTCT CCAATGCAAT CAAGCCTAGA CTCCAAATGT CCTCCCAGCT CACCTCCATC TATGCATCTC
ATCTCTGGAT TTGGTGATCA GACTCTATAT TGACAGTAGG ATCTCAAACC CTGCATCCAT CCTTCCTCCA GCAAGCCCTG
CTAGCCACAT GAGGAACAAG TTTCCGTGTC TTCATGACTT CC

SEQ ID NO:174:   (Length of Sequence = 353 Nucleotides)
CAAGAGGTGG GAGAGGTAGG GGGCAACTAC AGCTCCCCAC CAGCCCCACC AGGGGGAATG GACCCCTCCC TGCCTCCTGC
CCAAGTGGCT CCCCCTGTAT TATGGGGGGG ACTTTGTGCA AACTCTGCCC CGAGGGGGTG GGGAGGGTGG AGGGTGAGTG
TGAAATGGCA GCGGTTGGGG CTGGCAGCTG TGCTACTGGG CACTGGGGGG CTTGTAGGGC TCCAGGAGGA GGGCCGAGAA
GGTGTTGACC TTGTCTGCCC CCCGCACCTC ATGGGGTAAC AGCGGCAMTT TCACGATGTG GAAGTTCTTC ATACAGGTCC
TCCAATCTGG TCCAGATACT TGGCCTGGGT TCT

SEQ ID NO:175:   (Length of Sequence = 394 Nucleotides)
GCCCATGCCC TTGTGTACAT AATCTCTAAT ATTTATATAT ATTGATATAG AATTCTCTCT ATAATATATG TCATAGAATC
TCTCTTGGGC CTGGCGTGGG AATGTGACAT TAAGAAAACA TGCTAAGACT GGCCAGAAAA ATGGATATTT CCCAGACCTG
GAGGATGGTG TGTGGGATGT ATAGGTGAGG TCGTGGAGAA GATAATAAAC TCATTCCCCA AGATACCCTC TTCAACACAA
GGACAAGAAG GAAGGTGTGT GGTGGGGGAG GGGACAATGG AGGGGGAGGA GTGGAAGATT TGGATTTTCA TTTAATAAAG
TCAATTGAAA AATGAAAGTG CACCCCCCCT CCAAAAAACA GGAGATTCAT TTAGCAAGAG CCGTTTCATT CACA

SEQ ID NO:177:   (Length of Sequence = 381 Nucleotides)
ATTGGGACGG GCCCCCCTCT GAGGCGACGG ATCGATAAGC TTGATATCGA ATTCCTTGAT NTTTTCTAGT GTTATGGTTT
TCTCCCACTC CAATAACTWT TCATACCTKT GGTCTKAGTT TTTCCATCTA TAAAATCATG TGCTAAATAA TTAACTATCA
TCTCTATCAT TGTCAGACTA CACAAAGCTT CCAGCCTGGG CAACAGGAAC CCTGTCTCTA AAAAAAATAC AAACATTAGC
CAGGTGTGGT GGTATGCGCC TGTATTCCCA GCTACTTGGG AGGCTGAGGT GGTAGGACTA CTTGGGCTTT AGAGGTCAAG
GCTGCAAGTG AGCTGTGATT GCGCCACTGC ACTCCAGCCT GGGCAACAGG GCAAGACCCT G

SEQ ID NO:178:   (Length of Sequence = 443 Nucleotides)
GATTTTATTC AAACACAGGC AAGAACAATG ACCTTCAGAG CTGGGTAAAA ATAATAAGTT AAAAGCATGG TTAGAATTTT
AGACAATCAG ATAAAAAGTT TGAAGGAAGT GATTTCCCCT TCCTCTCCTA ATTGATTAAT TCAACACAGC ATAAAAATAA
TTTGTATCTA TAAAATATCC TTGTTCCCAC ACAAATGAAC TGGAGGTGGC CCTAGGATTT CCTTGACTAT GCACAATGCA
CACAATCTAC ATGTCCCTCC TCCCCAACTT TTAAGGCAAA AATGGTCCTG CATCTTCAGG CAGAGGGTGG GCTCATGCCA
GCAGTCAGCT GTGGTCAAGG ACACTGGGGG TGCGTTTYCT CCACCGAAAG ATGCCTGCTT TGGGTCCACT TTGGGCGCGG
GATCCCATTT TATTTTCTAG CCTGTGCCTC ACCACAGGGA AAA

SEQ ID NO:179:   (Length of Sequence = 325 Nucleotides)

TGGGGGACCA GCATTGCTCC CAGCTGAGGG CGCCGTCTTC CTCACCACGT ACCGGGTCAT CTTCACGGGG ATGCCCACGG
ACCCCCTGGT TGGGGAGCAG GTGGTGGTCC GCTCCTTCCC GGTGGCTGCG CTGACCAAGG AGAAGCGCAT CAMCKTCCAG
ACCCCTGTGG ACCAGCTCTT GCAGGACGGG CTCCAGCTGC GCTCCTGCAC ATTCCAGCTG CTGAAAATGG CCTTTGACGA
GGAGGTGGGG TCTTACAGCG CCGAGCTCTT TCCGTAAGCA GCTGCATAAG CTGCGGNTAC CCGCCGGACA ATCATGGCCA
ACTTT

SEQ ID NO:180:   (Length of Sequence = 213 Nucleotides)
GAGCATGCCC CCGGAGTCCC CAAGATCCTG GTGGGGAACC GCCTGCACCT GGCGTTCAAG CGGCAGGTGC CCACGGAGCA
GGCCCAGGCC TACGCCGAGC GCCTGGNCGT GACCTTTTTT TAGGTCAGCC CTCTTTGCAA TTTCAACATC ACAGAGTCGT
TCACGGAGCT GGCCAGGTTC GTNCTGCTGC GGCATGGGAT GGACCGGCTC TTG

SEQ ID NO:181:   (Length of Sequence = 219 Nucleotides)
AGCTTTATCA CATTATACAC AAACATAGAA AACAGTGTTT CAGAAGAGAA GCAAAGGCCA TTGGCTTCAA ATATTTATGC
AACAATGAAA ATGTTCTCAG CCCTTAAATG AGCACTTGTG ACTTGTCCAA CAGTGAGATA ACTAGTCAAT GGAAGAGTTC
AACACTAGAG CATGTATCTC AGTCTGTTCT CATATTGCTA TAAAGGGCTS CCTCAGACT

SEQ ID NO:182:   (Length of Sequence = 451 Nucleotides)
GTCTTACTCT GTTACCCAGG CTGGAATGCA GTGGTGTGAT CATAGCTCAT TGCAACCTCT GCCCTCTAGG CTCAAGTGAT
CCTCCCACCT CAGCCTCCCG AGTAGCTGGG ACTACACGTA CATGCCACCA TGCCCAGCTA ATTTTTGTAT TTTTGGTAGA
GACGGGGTTT TGCCATGTTG ACTAGGCTGG TCTTGAACTC GTGAGCTCAA GTGATCTGCC TGCCTCGGCC TCCCAAAGTG
CTGGGATTAC AAGCGTGAGT CATGGTGCCT GGCCTAGTTT GCTCTTATTT TTTTTCCATC TTTGCAGTTT CTAGGCCACT
GGGAACAGGC TGCAGAGCTC AGAGTCCACA GCTGTGAGGC TCCATGTTGC ACCATCAAAA AATAAGGTGA CGAGAGTCCT
GGGTTTCCCA GTGTCACGGC AAGAGGGGTT ACTGCTCACG GGTACACACA G

SEQ ID NO:183:   (Length of Sequence = 444 Nucleotides)
CCAAGTTGAC CCGCCGAACC ACCGAC-GGA AGAGTGAGTT CCTGAAAACT CTGAAGGATG ACCGGAATGG AGACTTCTCA
GAGAATAGAG ACTGTGACAA GCTGGAAGAT TTGGAGGACA ACAGCACACC TGAACCAAAG GAAAATGGGG AGGAAGGCTG
TCATCAAAAT GGTCTTGCCC TCCCTGTAGT GGAAGAAGGG GAGGTTCTCT CACACTCTCT AGAAGCAGAG CACAGGTTAT
TGAAAGCTAT GGGTTGGCAG GAATATCCTG AAAATGATGA GAATTGCCTT CCCCTCACAG AGGATGAGCT CAAAGAGTTC
CACATGAAGA CAGAGCAGCT GAGAAGAAAT GGCTTTGGGA AGAATGGCTT CTTGCAGAGC CGCAGTTCCA GTCTGTTCTC
CCCTTGGAGA GCACTTGCAA GCAGAGTTTG AGGCTCAGCA CCGA

SEQ ID NO:184:   (Length of Sequence = 399 Nucleotides)
GGCAGAAAGA GGAAGGAGAC AGTGCCAGGA GGAAGAAGGA AGGAGTCCCT TAGCTCTCTT CATTGTCCCC TTTACTTCCT
GCTATCTTCT TCTCCTCTTC TTCTCTCTCT TGCCTNTATG CCTGTATTTC TGGCAATATG ACAGGCCTGC CTACCCAAGA
TCAGAACTCC AAAACCACTC CCACCCCTGA AGGTCGGGAG GGTCTTAGCA GCCCTGGGTG GCTGCCTGTG CTCAGGTCCT
CAGCTCCATG GGAAATAAAA ATGGCACCCT GAATCTCTAG GATTTTGTCA CTTTGGAGTC ACAGCAAAGT TCTCTTCCTC
TTGTCCCCCC GTTTGCTGCT CCTTGGGTTA TAGGACATGG TAAATATTTA TTACTTTCAG GGAACCAGTA TTTTATTAG

SEQ ID NO:185:   (Length of Sequence = 263 Nucleotides)
CAGAGACACT GGCCCAGCTA TTTTCAGCAG GGACAGAGTC GAGGCTCACT GGGGATGGCT TCAGAGGACA CTGAGGCCCC
TCTCAGGGAG GGCAAGGCAC AGATACCCCA AATTCCACCC CACGTCCCAA AGGTCTCCCA GCGGGGCTGT CCAGTCCATG

141

TCAGCAGAAG GCTCTTGGGC GTGTGAGGGA GGGTCTTGGA GAACTAAGCG AAGGAGGCAA ACGCCAGGGC
CCCTTGCAGGCACC ATGTGCACCA CTT

SEQ ID NO:186:   (Length of Sequence = 343 Nucleotides)
GTTCCAATAG CTGGTTTTAT TCTCAGCACA AAAGGGCCCT GTGTAAAAAC CAGAAGGATT TTGTAAAATA TCAAAATGAA
TATTTGGCCT GGAGGTTGGA AAGTGAAGCA AGGCTGGACA TAGAAAAAAA CTGATCAGTA GTTATTCAGG ATATTATTTA
GGATAAATGA AATAGGAACT TAGGGGCATC TCTTACTTTT CTACAGGTTC TTATCTGGGT CAATGAAGAA ATTGTGTTTA
TCTTGCTGCC CTTGCATCAG GTTTTTTGCA CTAATGGAAA AAAGCCGGCC GAAAAACAAA ACCCAATCCT TTCAGTCCTA
GCTTTTACAT CTTGCCCTTG CAA

SEQ ID NO:187:   (Length of Sequence = 229 Nucleotides)
GGTGCGGCTC CACCCCTTCC ACGTCATCCG CATCAACAAG ATGTTGTCCT GTGCTGGGGC TGACAGGCTN CAAACAGGCA
TGCGAGGTGC CTTTGGAAAG CCCCAGGGCA CTGTGGCCAG GGTTCACATT GGCCAAGTTA TCATGTCCAT CCGCACCAAG
CTGCAGAACA AGGAGCATGT GATTGAGGCC CTGCGCAGGG CCAAGTTCAA GTTTCCTGGC CGCCAGAAG

SEQ ID NO:188:   (Length of Sequence = 284 Nucleotides)
CCAGCAACTC AAATTCACCA CCTCGGACTC CTGCGACCGC ATCAAAGACG AATTTCAGCT ACTGCAAGCT CAGTACCACA
GCCTCAAGCT CGAWTGTNAC AAGTTGGCCA GTGAGAAGTC AGAGATGCAG CKTCACTATK TGATGTACTA CGAGAKGTCC
TACGGCTTGA CCATCGAGAT GCACAAACAG GCTGAGACCG TCAAAAGGCT GACGGGATTT GTGCCCAGGT CCTGCCCTAC
CTTTCCCAAG GAGCACCAGC AGCAGGTTTT TGGGGGCCAT TGAG

SEQ ID NO:189:   (Length of Sequence = 215 Nucleotides)
GGAAGGATGA GAAACAGATT TCTGCTCACT TCATGGGCTG RCCTRGRATT GACGATGGTR CAAACCCAAG ATTATCCTCA
TGTAATTTAT GAAGATTATG GAACTGCAGC GCATGACATC GGGGACACCA CGAACAGAAG TAATGCAATC CCTTCCACAG
ACGTCACTGA TACAACCGGT CGGGCACATC TCKCGGCCTA TGCTGCCGGT GGTGC

SEQ ID NO:190:   (Length of Sequence = 153 Nucleotides)
TTTCATATGG AAAGAGCTAG TACAATCACA TATTTGAAAG GAGAAACAAT AGGTACTGAA CCGGAGGGAA AGGGCGAGGG
TGAGTGTGCC AGCACCGGCC TGGTGAATCC ACGATTCGGT TTCCCATCCA AGGGTAAGTT TCCCAAAATA CCG

SEQ ID NO:191:   (Length of Sequence = 316 Nucleotides)
GTATTTATAC ATTTATTTAT ATATGTATAT TTACTTCAGA NGAAACGAAC ATTTCGGGGA CAGGAAGCAA GCAGGCCCGG
GGCTGCTTCC CTCACTGCCC ACCTCAGAGT CAGAGTTGGC ACATGACAAA TACCAAGCTC AGGGTGAAGA ACTGGAGTT
AACTGGGAAG TAGGGKGCGC TCTATGCACA CGCAGGCTTC TAAGGGTGCA CGGTATGGGC AGKKGGTTTG CACTGGGAGG
CCCTATGTAC AGCTTGAAAG CTAGGGGTGA GATTAGCCCA GTGACTACAG GAACATACGT CAAAGTTGAG AGAAGA

SEQ ID NO:192:   (Length of Sequence = 360 Nucleotides)
GTGGTTTTTG GTTATATGCA GCTTTTGACT AGCATGTATT GTGTCTTTTT CTCCTCTATG AATAATTTTA TATTTCATGC
TACTTCTTGA AAGTTTACTC TTTGATGCTC TAAGAGAACA GCCAGATGGT TTATATGAAT AANCTTTATC TGCAGGATGG
TGGATTGGTA AATNAGGAGA ATGTTGTTTG AGATATCAAG ATTTATGTCT GGGAACTAAA ATATATAATG CCAAATGTGT
TTTTGTCAAT TACTAGAGAA TTCTGTGCAA ACATATCATC TCTTCACATG CTGCACACTT TGCTTTTTGT TAAACAGCAG
GTAGTAGACA GACCAATACC AGTTTCGCGT TAAGG

SEQ ID NO:193: (Length of Sequence = 397 Nucleotides)
GAAAAGACCA AGGAGATGGT GAAGACAGCA GAAGCCCAGA AGCAGCAACT GAAGGAGGAG CAGGGGAGGT CAGCAAGGAA
CGGGAGAGTG GGGATGGAGA GGCTGAGGGA GACCAGAGNA CTGGAGGGTA CTATTTAGAA GAGGACACCC TCTCTGAAGG
TTCAGGTGTA GCGTCCCTGG AGGTTGACTG TGCCAAAGAG GGCAATCCTC ACTCTTCTGA GATGGAAGAG GTAGCCCCAC
AGCCACCTCA GCCAGAGGAG ATGGAGCCTG AGGGGCAGCC CAGTCCAGAC GGCTGTCTAT GCCCCTKTTC TCTTGGCCTG
GGTTGGCGTG GGGCATGCGT CTAGCTTTCA CTCTGGTTCA GGTCCAACAG GGTCCGTTCT GTGCCTTTGG TGCCCCC

SEQ ID NO:194: (Length of Sequence = 225 Nucleotides)
GATTATTGGC TTTGCTTTCA TAACATGTAT TTTTAAGTAT TTACTCTCTT AATGGCCCTC GTGTCTATTT TATACATCAT
ATCTCTTAAT TCTCTAGATG GAACACTGAA GGACAGGAAT TAAGTAAGTG ACTGGCCATG CAAGGGTTGG AAATTTTACT
GTATCCCTTC CTCRGTAGAA GTTATGTTAA ACATTCAAGC AACCACATAT CTAACAGAGG AGTTT

SEQ ID NO:195: (Length of Sequence = 294 Nucleotides)
ATTACTAGAT ATTTGTATGT TAAATTATGT GGGTTTTCAA ATTTGTGGAG AATAAGTAAT AGTGACATTA GTTTAAGGAC
AGTGTTTCAT CAGGGCATTA TTTTAATGAA TCTTATATTT AAATGTCTGT TTCAGGAATT CATGTGAATC TTTCTTTTTA
TAGAGGACCC ACAGGCATGA NTTATTTACT CCTCCGGTGA TAGGTTCTCA CCCTGATGAA AGCGGAAGCA AATTCCAGGT
TAGAACATTA TNCTAGTTAT GTAGGGGGGT ATAAAGTGTG TAAGTTTAAT ATTT

SEQ ID NO:196: (Length of Sequence = 233 Nucleotides)
TTATTTTTCT CTAAATTTTA AAATAGAAGA CTTTAATGGA AAACATTTAG TACCATCATG TCAMCCTGAA TGCCAGCAAT
ACCTCGACTT TTACACACGC AGGAAGCCTA GTAAAAGCCC CGTCAGTAGT ACACATTTCT CTATGGTCCT TCAACAGTTT
TTCATATACA AAATTTTCTG CTATTTTTGC TTTTGCAAAC AGCAATAACT TTTGGGTTTC CCATATGACC ACC

SEQ ID NO:197: (Length of Sequence = 230 Nucleotides)
AAGATATCTA CCTGGAGTAG CTGTGCAGCC CCGCCCTCTG CTTCCCCCAG CCCTCAGGCC AGTGCCAGGA CAGCTGGCTG
CTGACAGGAT GTGGCACTGC TTGAGGAGGG GCACCTGCCA CCGCCAGAGG ACAAGGAAGT GGGGGCCGCT GGCCAGGGTA
GGGAAGGKTG GGGCAATGGG GAGAGGCAAA TGCAGTTTAT TGTAATATAT GGAATTAGAT TCATCTATGG

SEQ ID NO:198: (Length of Sequence = 118 Nucleotides)
TTCTCCTGGG GAAAGGGCTG TTGCTGAAGT GGCCGGTTTT TTTAAGCATC GACATTTGCA TCCAAAGGTT CAAGCAGCCG
CCTCAGGTTC CARAGGCTTC CACCTGATGG CTGCACTT

SEQ ID NO:199: (Length of Sequence = 268 Nucleotides)
TAAATGATGG AGTTAAATGA TGTTGTCAGT GCCTATTTAA AAAACTACTC TTCCCCTTCT CTATGAGTTC TACTTTGGTA
AATATTAATA TTTAACCAGT TAGTAAAACT AACACCACTA TTTCAATTCT CTTTTGTGCA TAGTAAGTAA ATTTTGCTTT
ACTTACTTTA TAAAAAAAATA CTTTACATTT TATAAAGCAG GTTTTAGAAA AACGGTTTAC AAGAAAGTTT GCCTCCATTT
CACTGCCAAT TTAAGCACAG GGAAAAT

SEQ ID NO:200: (Length of Sequence = 422 Nucleotides)
CCAGTGAGTT TGTGAAAAGC AACAGGGGTA NGACAGGTTC AAGGAAGGAC ACAGACAGTG CCCTGTTTTA CGTTCCAAAT
TTCTTCTTTT TAATGGGTGG TGGGAGCTGA GCAATGATGT CATTTGGAAG GGGCAATGAC TTGTCAATNA TGCAGAACAT
GTAGGCATCA TGGAGAAGGA TGTGCATCGG TCTCTTGGGA TGAAAACTGA TGTGTGTGAT AGGAGTATCC CTTTGGAGCC

143

AAAGGTGGTG AAAGCCCTGC TTCTGGACAG TCCGGCTCCA ATCTGTATAC TGTTTGTCTG GGATGCTGTA CTCAAATACC
TGCTGGTCCG AATGAGCGAT GACAAGGTTG TTTGGTATTG GGGGCAATAG CCATAGCAGT CACTTGGGAA ATTGTAAGCA
GGCACCGTGC AGTGAAGTTT TA

SEQ ID NO:201:   (Length of Sequence = 273 Nucleotides)
ACTCCACGCT GATGAACCCG ACGTCCATTT CTCCAAGAAA TTCCTGAACG TCTTCATGAG TGGCCGCTCC CGCTCCTCCA
GTGCTGAGTC CTTCGGGCTG TTCTCCTGCA TCATCAACGG GGAGGAGCAG GAGCAGACCC ACCGGGCCAT ATTCAGGTTT
GTGCCTCGAC ACGAAGACGA ACTTTGAGCT GGAAGTGGAT GACCCTCTGC TAGTGGAGTC CAGGCCCCCA GACTACTTGT
TACGAGGGCT ACAACATGTG CACTGGGTGC CCG

SEQ ID NO:202:   (Length of Sequence = 436 Nucleotides)
GGACTCCAAC CCCCCAGGAG GCCGAATGCT GAGCTTGGCA ATGGTGGCCT GGATGGAGCT GATGGGCACA TCCCCACCGA
GGACCAGGTC CTGGGAGTCC TGAGGAAGGT GGTTCTTCTG GCTGATGCTT GCACTGGCCA AGGGTTTGCA TGGAGGAGGC
ACACCATGGC GCTGCAGGAC CTGCTCCACG TGTCTCACCA CTGCCTCATA GCAGAACCTG AGGTGCAGCT TCTCCTGCAG
CATGTGCTTT CTCTGCTGCC GCATGCGCCG CACCAGCTGA GGCAGCTCAG GGATTCCKTT CCCAGCCTCC ACCTCCTGCA
CAGCTGCATA GAGCAGTGCA AAGGCTCCCG TGCGGCCCAC ACCAGAGCTG CAGTGCACAA TGATGGGCGT TTGCAGGGGC
CGTGATGCAA GGTAATTTGC GTGCACCTCC TGGGTT

SEQ ID NO:203:   (Length of Sequence = 336 Nucleotides)
CTGCATGTNT TGGGGACACT TACGCCAAGG CGCCGCGTTC TCATTAGGAG CTGGGACCAG AAGTGAATAA GCCAGGTTCC
TGTCTCAGGG AGCTCCATAG CAGGACTCAG AACCACACAC GGCCCTCTAG GCATTTKTGA AGCTCTGTGC TTCATTTTTT
TTGCTTTGCC TCTAGTTTTG CCTTTGCAGT ACCAATGCAG CCAGCCCATG TKTCCCCTCT ATGTGGAATG TTAACGATAT
TCCCACTGTT TCTGGTGTCC TTTCTGTAAT CAGAGCTGCC GTGACCATTC CAGTTCAGGC ATCCTGGTGG CCTGGCTTTC
TCTGGGGCAT AGAGCT

SEQ ID NO:204:   (Length of Sequence = 393 Nucleotides)
GGAATCAGAT GCTCAGGTGT CCAAGCAGGG ATAAGGACAG GCAAAATAAA TAACCCCCCA ACCCCCATCG TCACTCTGCT
GCAACACGAC ACAAAGGTTT AAAGATCTGG GCCCAAAGAC TCTGGGTCCC TTCAAGCAAG CTCAGGTGGA AGGAGGTTTC
CCCACCCCCC ACCAGGCCTG TTTGCCCCAG GTTGCCCTAG GATGGAGGCA GTTCAGACCC TGGGTCACTG AAGCTGATAG
GAAGAACTNC GATATCAATG GCCTAAGCCT GCTGTNTGCC CAAGGGAGCC AAGGGCAAGA GCCAAAGGGC CAATTTAAAG
GACGTGGACC TGGGGGGCCA GAGGAGGCAC CACAGCCGAG GGGAGCCACG CCCTGGGCCG GCAGGGCACA TGG

SEQ ID NO:205:   (Length of Sequence = 390 Nucleotides)
GAGGAAGAGG ATGACCTGAG TGAGCTGCCA CCGCTGGAGG ACATGGGACA ACCCCCGGCG GAGGAGGCTG AGCAGCCTGG
GGCCCTGGCC CGAGAGTTCC TTGCTGCCAT GGAGCCCGAG CCCGCCCCAG CCCCGGCCCC AGAAGAGTGG CTGGACATTC
TGGGGAACGG GCTGTTGAGG AAGAAGACGC TGGTCCCAGG GCCGCCAGGT TCGAGCCGCC CGGTCAAGGG CCAGGTGGTC
ACCGTACATC TNCAGACGTC GCTGGAGAAT GGCACACGGG TGCAGGAGGA GCCGGAGCTG GTGTTCACTC TGGGTGACTG
TNACGTCATC CAGGCCCTGG TTCTCAGTGT CCCACTCATG GACGTNGGGG AGACGGCCAT GGTCACTTCT

SEQ ID NO:206:   (Length of Sequence = 172 Nucleotides)

CTTTACTGTG GGTGTGGGTG TCACTGTCAC TGCCACAGCC ACTNGGAGGG ACACACAGCT TTAACCCCTR TTTGCTTAGG

NGAAGGGTGG GGGCATTCAG GGTTATAAAA CTAACTATAT ACACAGAAGG TCCTAGGKAG AAAGCCACCC TGAGCACACA

TGTCTAGGCA CA

SEQ ID NO:207:   (Length of Sequence = 215 Nucleotides)

AAGGCAATTA GAAGATTTAT TGAATATTGG TTAAAAGTAG ATTGACAATG ACATTAAAGA ATAAAGTGTA ATTTATTTGG

TGCTACTTTG TGAATGCTTC CAAGTACAAA TCATCTCACA ATACCATATA CAACATACTT TCAATCACAA CTCAAATATA

AAATAACCTA CAAAATCACA TTGCTATAAT CAATATACAA TAATTGTATT TTTAA

SEQ ID NO:208:   (Length of Sequence = 444 Nucleotides)

GGAGTTCTCT TGTCCACGGA GAGCAGTGTT GCAGTGTATG GAATGCTAAA TCTTACCCCA AAGGGCAAGC AGGCTCCAGG

TGGCCATGAG CTGAGTTGTG ACTTCTGGGA ACTAATTGGG TTGCCCCTG CTGGAGGAGC TGACAACCTG ATCAATGAGG

AGTCTGACGT TGATGTCCAG CTCAACAACA GACACATGAT GATCCGAGGA GAAAACATGT CCAAAATCCT AAAAGCACGA

TCCATGGTCA CCAGGTGCTT TAGAGATCAC TTCTTTGATA GGGGGTACTA TGAAGTTACT CCTCCAACAT TAGTGCAAAC

ACAAGTAGAA GGTGGGTGCC ACACTCTTCA AGCTTTGACT ATTTTGGGGG AAGAGGCATT TTGACTCAAT CCTCTCAGTT

GTACTTGAGA CCTTCCTCCC AGCCTGGGAG ATGTTTTTTG TATT

SEQ ID NO:209:   (Length of Sequence = 338 Nucleotides)

GCAGATCACT TGAGGTCAGG AGTTCGAGAT CAGCCTATAT ATGCAAGTAC ACACACAGGC ACTCGCACGC ATGCATGCTC

ATGCAACACA CATGTACACT CTACATGTAC AGCTCACATA TGCATCCATA CACATGTGCA TGCTCACCCA TACACCAGCC

ACACACAAGT ACTCATACGC ATACATGGCC ACACACAAAG TACACACACG TACACCATAT GCATATGTAT GCACTCATAC

ACTCATACAT ATGTGCCCCC TCAGAGAAGT ACACAAGTGC ATGCGCATCA CACATGCATA CGTGCTCATG CATACACACG

GGACATTTCA TACACACG

SEQ ID NO:210:   (Length of Sequence = 371 Nucleotides)

GAGGAAGTAG AGCCTNAGGA GGCTGAAGAA GGCATCTCTG AGCAACCCTG CCCAGCTTGA CACAGAGGTG GTGGAAGACT

CCTTGAGGCA AGCGTAAAAG TCAGCATGCT GCAAGGGGAC TGTAGATTTA ATGATGCGTT TTCAAGGGTA CACACCAAAA

CAATATGTCA ACTTCCCTTT GGCCTGCAGT TTGTACCAAA TCCTTAATTT TTCCTGAATG AGCAAGCTTC TCTTAAAAGA

TGCTCTCTAG TCATTTTGGG TCTCATGGCA GTAAGCCTCA TGTTATACTA AGGGGGAGTC TTCCAGGTGT GACAATCAGG

TTATTGGAAA AACAAAACGT GGTTTTGGGA TCTGTTTGGG AGACTGGGGA T

SEQ ID NO:211:   (Length of Sequence = 295 Nucleotides)

CCTCCCAACG TGTTGACATT ACAGGCGTGA GCACACGCAC CCAGCCCATC TAGCATAATG TTTTGCATAG TTGTCAGCAG

ATAAATATTG AATGACAAAA CTCAGATGGA GGAAAAAGAA CAAAATAACC TAGTTCTCAG AAAGATTTAA TGAGCAAATG

GGAAAATGTC AAAAAGATTT ACAGACAGGG GCATCTTAGA GTCACTGGAA TCACACAGGC CTTCCCTCAG CTTGAGGGGC

TGCCTGGAGG TGGGGGTGGG GGTACACCTC CTCAGTGGGG AGAGACTTGC CAAAT

SEQ ID NO:212:   (Length of Sequence = 370 Nucleotides)

TGGCCGATAT GAGGGGGGTG GGACTGGGCC CCGCGCTGCC CCCGCCGCCT CCCTATGTCA TTCTCGAGGA GGGGGGGATC

CGCGCATACT TCACGCTCGG TGCTGAGTGT CCCGGCTGGG ATTCTACCAT CGAGTCGGGG TATGGGGAGG CGCCCCCGCC

ACGGAGAGCC TGGAAGCACT CCCCACTCCT GAGGCCTCGG GGGGGAGCCT GGAAATCGAT TTTCAGGTTG TACAGTCGAG

CAGTTTTGGT GGAAGAGGGG GGCCCTAGAA ACCCTGTAGC GCAATGGGGT TGGGCGCCCC AAAGGTTAAG TTTGAACCCG
AAGAGCAAAG GAAGAGGCGA TCATCATAAG TGGAGGATTA GGATTAGGAT

SEQ ID NO:213: (Length of Sequence = 302 Nucleotides)
ATCTGTGGAA TAATCTGCGG GCTAACACGG ATAACTCAGT ATAAGAACCA CCCAGTTGAT GTCTATTGTG GCTTTTTAAT
AGGAGGAGGA ATTGCACTGT ACTTGGGCTT GTATGCTGTG GGGAATTTCC TGCCCANTGA TGAGAGTATG TTTCAGCACA
GAGACGCCCT CAGGTCTCTT GACAGACCTC AATCAAGATC CCAACCGACT TTTTATCTGC TAAAAATGGG TAGCAGCAGT
GTATGGGAAT TTTCTCATAC AGAAGGGCAT CCCTCAAACC GGAAACCACA GAGATGCTAG GT

SEQ ID NO:214: (Length of Sequence = 354 Nucleotides)
ATGGATGAGT GGGCACCCCG CACAGGGCTG CAGGGTGGAA AACGCTCGAC GGCCAGGTGG TGACTTGGGG GCAGAGAGCG
CAGTGTNGTA GGGGAGGAGA GGTGGTGTCC CTGCTGCCTG GGAGCCAGCC TGCCTGTNCT GTGGGCAGAG CAAGGCACTT
TCTGCTGCCG GTGCTTCCAG GGCCTAAGCA GCCGCTGCAC ACTCACCAGC GCAAGGCTCC TCTGCAGGGA ACGAGGGCTG
CTACCCATTT CACAGATGAG GGCAAGCAAG GACTTGCCCA GGGTTGCCCA NAGCAAGTGC GTAACAGGCC CTGAGAAGAG
NGCCAGTGAG CTCATCCTGA GTTAATTATG GGCT

SEQ ID NO:215: (Length of Sequence = 260 Nucleotides)
TGGTTCAAAG TCTAGGCCCT CTTNAGAGCT GGCTGATTCA GCTTGCCAAC AGTGACATCA GGGTGAGGCT TCCTCTGTCC
ACAGCATTAG CTGCGAATAT CCTCATGGTC ACAAGATGGC TGCCAGTGGC CGTCAGGGTG TGTGCTTCCT TGTTCACATC
CAGTGGAAGA GTGACAGCCT GCTCCCCTTA GCTCTCTGAC ACCANTGTGA AGGTGCCANG AACTTACTAG CAGGNCTTTC
CTCATGACCC ATTCAACAGG

SEQ ID NO:216: (Length of Sequence = 232 Nucleotides)
CTTGGACAAG ATCTGGGATA ATTCTCTGGA TTACCTGGCA GAGACTTTTK TTCTCTTCCC TTACTGTCTC CCAAATAAAC
AGTCTCTCAC TCTGTTGTGA GCCACCTGAA GCTGTGATAT TTCCAACGAC TGTAGGAGGA AAAAATTAAG GGGAGAGAGG
AAAACAAAAC CAACCAACCC CTAANATCAT TTNTTTATTG TACATAACGA CCTCATTCTC CTGTATATGC GG

SEQ ID NO:218: (Length of Sequence = 219 Nucleotides)
CTGCAACCAT CCATACCTTT TNCCCGTGGC TGCTATGGAG TCCCCCAAAC TCCCCAGTGG GGCTTATGAG GGTGGGGCAC
TTATTANGTN GTCTGGGAAG CTCATGCTGC TCCAGAAGAT GCTGCGAAGC TGAAAGGAGC AAGGACACCG AGTGCTCAAT
NTTCTCGCAG ATGACCAANA TGTTAGCCTT GCTTGAGGGC TTTCTTAGNC TATGAGGCT

SEQ ID NO:219: (Length of Sequence = 390 Nucleotides)
GATAGGTAGC AGAGACCAAG GCGCAGGGTG CTTCAGATGA GCAAGAGAAC CCAGTCGAAC CAGATACCCC AGGTGGGCCG
GAGGGACCCC AGACCTTCAG AGGGCTGCCC TGGTGTTCTC CACAGTGCAG TCCCTCTGTA TTCCCAGAGT GGGATCGGGG
CTTTCAGCCC ACCCTGATGC CTGCCCTCCA GGATGGCTGG TTTAGTCTGG GTCCATGTCC CAGACCCCTC TATTCTGCTC
CAGGACAGCA GGACTTCAGG TCTTTCCTGG GGGTGGATAT AGGAGAAAAT TTCTGCCTGG CACACACCTG GGCTCCAACC
ACTTGCCAAG TGATTCACTC TTAGGCCCAG GGGAACACA ATGACTATCA TTACTGATGC AGACCTGGCT

SEQ ID NO:220: (Length of Sequence = 382 Nucleotides)

TTTTTGTTTT GTTTTAATAT TTTTGATATT CTCTTTGCAT TGAAATGGTA TAAATGAATC CATTTAAAAA GTGGTTAAGG
ATTTGTTTAG CTGGTGTGAT AATAATTTTT AAAGTTGCAC ATTGCCCAAG GCTTTTTTTG TGTGTTTTTA TTGTTGTTTG
TACATTTGAA AAATATTCTT TGAATAACCT TGCAGTACTA TATTTCAATT TCTTTATAAA TTTAAGTGCA TTTTAACTCA
TAATTGTACA CTATAATATA AGCCTAAGTT TTTATTCATA AGTTTTATTG ANGTTCTGAT CGGTCCCCTT CAGAAATCTT
TTTATATTAT CCTTCAAGTT ACTTTCTTAT TTATATTGTA TGTGCATTTT ATCCATTAAT GT

SEQ ID NO:221:   (Length of Sequence = 314 Nucleotides)
GACTTTGGTT TATTTAAAAA ACAAGCCAAA AAAAAAAAAA AAAAACCCCA ACTTTATATA CAAAGTCAAA CTGAAACCAC
GGWTTATGGA AAGAGGCAAG AWTTATGGGT AACAGGGGAG AAGGCTGGGC CAGAGCCAAT ACCACATTCT GAACACAGGA
GCCACGGGAA AGAGGTGCTG GTTTCTTCTG GCAAGACCGG GGTGACTGGA ACGCAGTGGT CCTACTGGCA AACCCAGCCC
AACACTGAGC TCTTTCTAGC ATGGACTCCA TTCCCGTGAT TGGCCAAGGG AGACCCTTCC CCCAGGAGGC CTGT

SEQ ID NO:222:   (Length of Sequence = 342 Nucleotides)
TTCCTTCTCT GCGGCGGCAC GTCGCNAGCA GCCTGCTTCG CCCCGTCGTC AACTTTGAGC TGGAGGAGAA GCAACTTTGG
CAGTGGCCGC GGGGTGGGAA TCCCGCTTCT CCTCGGCAGC AGTAGGCTCG CAAGTCGCTG GGGTTAGGTG GGGCAAGAGT
TTCGCCGGCG CATCAGCGCT TGCTTCGGAC TGTTTGCAAC GTGTTTCCAG CGAGCTGGGA GCGGGGGTTG TGACTGCGAG
TCGTCTGGGG GAGGGGGACT TGTTTTTCTT TTCCTCTAGA GACCTCGGCT TTCAACTGGA TCAAACGTTG TCGAAAGGAT
GTAAATAGGC AAGAGCAAAC TG

SEQ ID NO:223:   (Length of Sequence = 376 Nucleotides)
GTGATGGCTG CCTTGAGGGG GACCATCATG TCGGAGACGC ATTGGTGCAG GTCTCACCCC ACAGCCCATG CCCAGCCTCC
TGCAGACTCA GGTCATCCAG CTGGTCGATG GCTCTTTGCA TACCTGGTGC CTTCTCCTCT CGGGCTTGGC AGGCTTCTCT
GGGGGCTTCT CAGATGACTC TTTTGCCTTC TTCTCTGTCT TGGCTAACTC CTTGGCCAGC TCTGAACGTG CCTCCTTGGC
TCCCTCTTCT ACCACCTCCT CCCGTTTGGC CAACTTGCTC ACGGCCGTCT TGGTAGTGGC TTTGAGGCTC TCCTTGCTAT
CAGCCCGCTG TTTGATTTTG CTGGGCTTGA GGTTGGTAAG GCACAGCCCC AAGAAG

SEQ ID NO:224:   (Length of Sequence = 445 Nucleotides)
GTTGATAGAC ATTGGCATTG GGGTTGCTTC CACCTTTTGG CTGTCATGAA TAATATTGCT ATGAACACTA ATGTACAATT
CTTTGCCTGA ACGTAAATGT TTTCATTTCT CTTGGGTATT TATCTAGAAA TGAAATTGCT GTATGTTAAC CCTTTGTTTA
ACCTCTTGAG GAACTGGCAG ACTTTTCCAA AGCAGCTGCA CCATTTTAAA TTCTAACCAG CAGTGTTTGA GGGTTCCAAT
TTCTCTATAT CCTTGGTAAC ACTTGTTATC TGCCCTTTTG GTTAGAGACA TCCTAGTGAG TGTGAAGTGG CATCTCACTG
TGGTTTTGAT GTGCATTTCC CTGATAGCTA ATTGTGTGGA TCCCTTTTGC TTTTAGTGGA ATGAAATATC TGGTAGTCTC
GTATGCCAAA CTAAAGCTAA AATTAAAATG ACTCTGCATG ATGGA

SEQ ID NO:225:   (Length of Sequence = 403 Nucleotides)
TGCTCTCGGG ACAGTTTCCC GGGCAGCTCC TGGCCAGCTT CCAGCCCAGA GTCCTCAAGT CCAGGGCACC TTGGGCCCAG
CGCAGGCAGA ATCCGAGGTG GTCCTGGCTC TACCCTGGGC CTCCTACTCC CCAGCACCCC TGGAGGAGGC AGGGGCTCCC
CGCCGCCGAG GCTGCCTGCC CTAGGCCCAC CTCTGCATGC TGCTCATGGG GCCACCCTGC CTCCTGGGCC CTCACTCTGC
CTAGGGGAGC TGGGCCAGGC ACTAGCCTTT GCCCAGGGAG GTGGGCCTCA GGCTGCCCAG GTGCCTGCAC CCCAGCCGGG
CTTCTCTGGG GCCTCCCCGT CGTCAAGCCT ATATCCTGTC TGTCCCCACC CCAGCTGTCC CTTGCCAGGG GACTGGCATA
AAA

SEQ ID NO:226:   (Length of Sequence = 440 Nucleotides)
GTGCCTTAAG GAGAGAGATT GTGTTCTTCC TCTCTCAGGG GTGATAACTC AGGAAGCCTC TGGGTTGGGA AGACCATCAG
TTCTTTTGTC TTAGGTTTCT TTTCCTGTCC CTCTTCCATC CCCAAGATGT GACCCCATAA AAATTTTTCC TGAGTTGGCC
AGGCATGGTG GCTCACGCCT GTAATCCCAA CACTTTGGGA GGCTGAGGCG GCGGATCAC GAGGTCAGGA GTTCGAGACC
AGCCTGACCA ACATGGTGAA AACCCCATCT CTACTAAGGA TACAAAAATT AGCCGGGTGT GGTGGCACAC ACCAGTAAGT
CCCAGCTGCT CAGGAGGCTG AGGCAGGAGA TTTGCTTGAA CCTGGGAGGC AGAGGTTGCA AGTTAGGCCG GGATTGCGCC
GTTTGTACTC CAGCCTGGGC AAGCAGAGCA AGACCATCTA

SEQ ID NO:227:   (Length of Sequence = 426 Nucleotides)
GACCAAGAAG TTCCGGTTCG AGGAGCCCGT GGTTCTGCCT GACCTGGACG ACCAGACAGN CCACCGGCAG TGGACTCAGC
AGCACCTGGA TGCCGCTGAC CTGCGCATGT YTGCCATGGC CCCCACACCG CCCCAGGGTG AGGTTGACGC CGACTGCATG
GACGTCAATG TCCGCGGGCC TGATGGCTTC ACCCCGCTCA TGATCGCCTC CTGCAGCGGG GGCGGCCTGG AGACGGGCAA
CAGCGAGGAA GAGGAGGACG CGCCGGCCGT CATCTCCGAC TTCATCTACC AGGGCGCCAC TTGCCACAAC CAGACAGACC
GCACGGGCGA GACCGCTTTG CACCTGGCCG CCGTTACTTA CGCTCTGATG CCGCAAGGGC TCTTGAGGCC AGCGAAGATG
CCAACATCAG GCAACATGGG CCGAAC

SEQ ID NO:228:   (Length of Sequence = 278 Nucleotides)
CAGGACCAGG AGAAGATCCT GGAAGATGCA GTGGATGAGT GGACGGGCTT TAACAACAAG GTTAAAAAGG CCACTGAGAT
TGTTTTAGAA AACCAACAGC AAAACACTGA CAAGGTACAT AAATACAGAT TGGACATTTT AGGGTAAATT CACTGTATTT
CCTACTTGCT TGTAGGAAAC CGAGTAAAGT GGAAAAGCTG TCCTGATCAT ATGGCATGCA CACCAGACTG CAAAAGGNCG
TCCACACTAT TTAACAGGAC TGTGGCAAAA TAGCTTTA

SEQ ID NO:229:   (Length of Sequence = 425 Nucleotides)
TTTTTGTTCC CAAGCCTTTG TGACTGACTT TAAATCCTCT CACCTGCAGA ACAGAGATGG CTTCAAAGTG GGGAGTGAGG
GAGTGAGCGA GGACCCTGGG CTGAGACCTG TTTTTCTTCC ATTTCTGCTG TGGCTTCCCA CAGCTCCCTG GTTCCACACC
AGGCCCTGCT CTGCCGCAGA AAATGGATTC CCAGGCCACA GAGCTGTCAG GCCTTTGACT TTGCAGAGAC CAAGCACCCC
AGAGGCTGTG CGACASGGCT AGTCCCTGGT GGGCCGGTCT GGGGCATGGG GGGCAGGGAG ACTKGGAGAT GGGGAGGGCG
TTGAGAATCC GGGGGGTCCT GGATACTTGA CAAATTGGCT CAGGTCTTAG CTYTGGYTGC CCCACTGATT GTGTTGCTTG
GCAAGGTGCA AGTYTTCGGC TGTTC

SEQ ID NO:230:   (Length of Sequence = 382 Nucleotides)
TTGGAGGATG TGCTGCCCCT CCTGCAGCAG GCCGACGAGC TGCACAGGGG TGATGAGCAA GGCAAGCGGG AGGGCTTCCA
GCTGCTGCTC AACAACAAGC TGGTGTATGG AAGCCGGCAG GACTTTCTCT GGCGCCTGGC CCGAGCCTAC AGTGACATGT
GTGAGCTCAC TGAGGAGGTG AGCCAGAAGA AGTCATATGC CCTAGATGGA AAAGAAGAAG CAGAGGCTGC TCTGGAGAAG
GGGGATGAGA GTTCTGACTG TCACCTGTGG TATGCGGTGC TTTGTGGTCA GCTGGCTGAG CATGAGAGCA TCCAGAGGCG
CATCCAGAGT KGCTTTAGCT TCAAAGGAGC ATKTTGACAA AGCCATTKCT CTTCAGCCAG GA

SEQ ID NO:231:   (Length of Sequence = 398 Nucleotides)
GAGGCTGGAG AATCGYTTGA ACCCAGGAGG CGGAGGTTGC AGTGAGCCGA GATGGCGCCA TTGCACTCCA GCCTGGGCCA
GAGCAAGGTT CCTTCTCAAA AAACTTGGAA ATCTGTTGGG AAGTAGGGGG AGGGCAAGGT TAAAACCTAT GCAGGTGTGT
CAATTAGACT TGTTCCAACT TGAGAACCTG AATTTTGCAT GTAATTGAAA TGTTCCAGAA CAAGTCTGGC AGTTTCATAA

GGGAGTTTTT AGATGCCAAT ACATTGCAGA TAACCATATT GGTTACATTA GGGGAATGAG CATGGGATAG GTGCCTCCCA
GTTGGTAGGA TAGCATGAGG AGGTTTCAAA AGTAACCSCT TTAAGGGTTA TGTCCAGTAT TTGCTAAGTA ACCAAGGT

SEQ ID NO:232:   (Length of Sequence = 272 Nucleotides)
GGGGCTGCAG ACTGAGTTAT TTTATTTCGC TATTTCCAGT TTGAAGCTAC TATCATGGGC GTTTAGAGTT ATACAAATGA
CACTTACAAA AAATAAAAGA CCAAGACACC CAGAGTGAGA TGCATGTTGG GGACGGGGGA GGCTGGCAGC AGGGGGGCCC
CGGCGGYTCA CCCCAGGGCT CCCGGAGGGG CGACGCCTGG CTTCATCCAC CCGGGAGGCC CAGGGAGCAC CAATCACAGC
AGGGGCTCTG GCCCAGGTGT CGGCAGCCCA GG

SEQ ID NO:233:   (Length of Sequence = 364 Nucleotides)
ATTTTACAGT TTTATTTTTA AATCATTTAC ACATATTCAT ACAAAGAAAA ATAAATTTCA GGATGGAATC CTGGGGACCA
TGGTAGTTTA AAAAAAAAAA TCTCTCTGAT CATTAGCTAC TAAAGACANG GCAAGAGGCT TAGCAGTCAT TTCTGGGGGT
TAGTGTATCT CCCCATGCAG GGACAACTG NGAAGAATCC AAGCTGCTCC CTCATCTTCC TTCGATCTAG ATGGGGGAAG
GGGATTTTCC AATGCTCTCC CCTAGAAACA TTTCAAGAAG TACAGCAAAG GCTTATGGTA ACACTGGAAC CTATTTGCTA
GAAATCTGGC AAGATTGCAC TTTCTGAACC CAATTTTCCT ATAA

SEQ ID NO:234:   (Length of Sequence = 217 Nucleotides)
GGCCAGGAGC CAGAGGGCCC CGGGGCCACC CCTGCCGGGG AACGTGATGA CCAGAGTCCA GACAGTGTCC CAGAGAGGCC
GCGGCCCGCA GACCGGAGGC TCTGTCTGCC CTNCGTGGAC GCCTCGCCAC TCCCAGGGAG GACGGCCTGC CCGTCGCTGC
AGGAGGCCAC GCGGCTCATC CAGGAGGAAT TTGCCTTCGA TGGCTACCTG GACAATG

SEQ ID NO:235:   (Length of Sequence = 221 Nucleotides)
AACTTTAAAG TTAGGATTTT AAAATATTTG TAACTGGCTA AATTTTAAAG TCGTGACAAA TAATTACTTA GGTTCAGAAA
TATACACACA CTTACTCTTT AGCCAGTTTC TTTCAAGGTN TTACTGTCCC ATCAGATATC TAGCCATTTK CCTTTGCAAA
TTACATACCT TCTTAAGAGT GTATTTTTAA GATTATTACT TATGCTTTAT GATGATATAG T

SEQ ID NO:236:   (Length of Sequence = 221 Nucleotides)
ATAAATGGGT TTCTCACTCC TTAGGGACAC GATTGGAAAC AATACATCCC ATGAACACAG GTGAATGTCC CTGGTTATCC
CTGAGCTGGG CAGTTTCACA CAATCANTTT TNCTCTGAGG CCAAAGTCTG TGGTTTGATC ATCTTAGCAG CTTCCAGAAC
AGAAAGTAGG TTTACTTTGT CTCCAAANTC TNATTCTCGG TGCTCAAAGA AGAATGACCT G

SEQ ID NO:237:   (Length of Sequence = 251 Nucleotides)
GACATCTTTC TAAGATTCTC TGTGGGAAAA TGACTGTCAA TANAATGCGG GTTTCTGGGC CATTCGTCTT ACTTTCATTT
TTTGATTACA AATTTCTCTT GACGCACACA ATTATGTCTG CTAATCCTCT TCTTCCTAGA GAGAGAAACT GTGCTCCTTC
AGTGTTGCTG CCATAAAGGG GTTTTGGGAA TCGATTGTAA AAGTCCCAGG TTCTAAATTA ACTAAATGTG TACAGAAATG
AACGTGTAAG T

SEQ ID NO:238:   (Length of Sequence = 327 Nucleotides)
GTTCGTGGCT GTCACAATAA TGCTGTGATA ATGCTGTGGT TTCCCAGCAG GGAGGTGGGA GCGGGGAGGG GGCTGCAGCC
TGATGAGAGC CAGCTGAAGG AAGAGCTGCC TCTCCCTTCC TAAGCCCCTT CCCAAGGTCT GCCCCACCGC CCAAACCAAA
GACCACTCCG AACAAAGTGA GGATGTGGAT GCTCTTGCTG GGTCCGCTGT TCCGCAGAGG GAAAGAAAGG GTAGCTGCAC

TGACCCCACT GTCCCCATAT ACAAGGGTTK GGGGGCAAGA GCATGTGGCT ACTCCCAGCA AGGGRAAAAT GGGAGGAGCA
GTAGAAA

SEQ ID NO:239:   (Length of Sequence = 285 Nucleotides)
ATTATTAGTT TATGGTGCTT TAAACCTATC AAAATAGTTG TAAGTAAATG GATTTCTTGT NCTCCCAATA ACAATTCTCT
GAGCTAGGAT AGATGTCTTT CTGGCCATTT TACAGGTGAT GACACTGACA TAGGGACTGA GTGGGTAGCT TAAGTNCCAT
GGTTACCAGG AGCAGGACCN ACGTTTCCTG NCTCCCAGTC TCATCCTGTT TTCCACTGAC CAGGTTGGTT GCTCCCTTGG
AAAGCAGTCC CTGAGAGTTG ACTTAGAAGT TCAGGGNGAA GAGGT

SEQ ID NO:240:   (Length of Sequence = 349 Nucleotides)
TTTTGCCATG TTGGACAGGC TGATCTCAAA CTCCTGGCCT CAAATRATCT GCCCAGCTTG GMCTCCCAAA GYGCTGGGAT
TACAGATRTG AGCCACTGCA CCCAGCCTGA CATGCCATAG TTTCAGCATT TTCTTGGGCA ATGATCCAAG CTGAAGGCTG
GTCTGAGGGA TCTSAAGAAG CGTATGAGTT GGAAGAGAGG GACAGAAAGG AAGAAGACAT GTGAAGAGAG AAAAGGAAGG
AAGCTAGCAG AGGAATGCCC TCCAATAGAG ACTGCTGCCT GAAGCTCAGC CCCTCTGAAG ATAGGTAGGC CAGGCTGGCT
TAGCTGAGGC AGTGGGTTAG ACCAGCCCT

SEQ ID NO:241:   (Length of Sequence = 233 Nucleotides)
GTGCAGCGGT CTGCCTTCAT CTTTTAATGG CCGGTGCGGT ACAGTTAGTG GACAGACGGG GGATGGGACA CAGCAGGGGT
GAAACAGGGC AGTCACAGCC GGGGCCGGGG ATCTGGAAGC GGGGGCGGTC CTCCCCCTGG AAACACCGTN TCTGGAAGGA
CACCCTTAGG ATCCCCTGAC CTCARGGTGC CACCCACACG GGCCTGGTGT TCTGGGAGGC CCGGCTKGAG TGA

SEQ ID NO:242:   (Length of Sequence = 372 Nucleotides)
ATATGTACTA CATTTGGTGG AATACGCATG TACAATTCTT CAAAAAATAGT AAAGAGCAAA ACAAACAAAA AATAGTAGAA
GCACTGGAGA AATACACTAT GGCATAAACT AGTTACGGGT GGGATGTCAC ATGGACCATA TCTACACTCT GTGGCAACCT
TCTTACCTGA CTCCAAAGGA TCAGATAATC AAACAGGAAA TTATGGTAGG AAATCAGAAA ATTGAAGTAT GCATTCATAT
CCTAAGCATT TTATTTTAGC TCAAAATATA AAAATATTCA TCAGTTAGCC AAGCTTTTGN GATGAGAGAT CATAGCCTCC
TCTTTGATAG GGGGTTTCTT GGGTTTCCTT GATTTCATGT TTCAGAGTTT TT

SEQ ID NO:243:   (Length of Sequence = 256 Nucleotides)
CTCACACATT CATACCCAAG GAAGAGGCAA ACACACTCAA GTCCAGAGTT CCCAGTGGTG CCGCCCAGAC CTACTGTCCC
GGGGGTGTTA TGGCTGTCCC TCGGCTTCCC CAGAGCAGCC AGGACAGCCT GCACCGNCTN CCAGACTCTC GCAGGAAGGG
GAGCTCTGCC CTGGGGAGGA AACTNACAGG CTGGGAGACA AGACTCCCAT CGCAGGGACA TGCACAGCAG CAGCCACAGC
CCCGCGGACG GGGCAT

SEQ ID NO:244:   (Length of Sequence = 220 Nucleotides)
CAAATGGCAG TTCTCGAGAA TCGACGAGGA ACTTAAATCT GGACTCAGGG TTTCAGTGCG GTCTCCGACT CCCACCACCC
CGCCCCTCCG NCTGTCTCGC CGCCAGGNGT GACCTCCACG CGAAGGAATC TTCTTCGGAT GGGTGCACCT TGCCAANAGG
TGTGGCACCT GGNGGACTAG GAGGCGCCTC CANACTAAGG GCGCTCANTG CGGCGTTCTT

:

SEQ ID NO:245:   (Length of Sequence = 239 Nucleotides)

150

TTCATGCTCA TGTAACCTTC TTAATAGTGC CTTGTCTGCT GGGTTTGTAG CTGTAAGAGT TCTGCAAACT GGCCCTATAA
AAATATTGAT GCTGTCCATT AAAATGAATC TCTCTCTCTC ACTCAGTCTC TCTCTCTGTC TGTCTCTCTT TCTTCTCTCT
CCTGCCATGT GTGTGTCTCT CTCTACTCCT CTGATTTTGN CCTCTCTCTC TATTCTGCTA CTCTCTCTCC TCTCCTCCG

SEQ ID NO:246:   (Length of Sequence = 269 Nucleotides)
GGTTTCACCA GCGTTTAATG TGCTCTGATG TTGACCGTCC CTCTNAGTNT TCTGGGGAGG AGGGGGTGGG GCGGAGGGTC
AGGAAAGCAG GCTCAGCTTC CAGGGTCAGG GAGTTGTGGG CCCAGAGGGG CTGTCACAGT GGATGCACCC TGCCCCCTCC
CTCGCCAGAC CCGAGGGTAG GGCAGAGGCA CCTCCTCGNC AGCCTNTGGG CTGCACCCAC AGGGAATNGA GGGGAGGGGC
ACCATTACCA CTGGACCCAC CAAAGACCC

SEQ ID NO:247:   (Length of Sequence = 297 Nucleotides)
CTATTCAAAG TTTACTGACC TCCCCAGCCA GGCAGGCCAA CCCTTCCGAG CAGGGGAAAT GTCCATCTAG CTGCCCTCTG
CTGGGTTGCA GCCTATGCCA TGAGAGGGTA CTGGAAGCAG GAGGGAGCCC TGGCTAGGGC AGGCCTTAAA CGCAAGGGAA
GCTGAGCAGA GATCTGCACA CTCAACCCCA TTTGATATTC TTCTCCTCCT CAGTCATGGC CAGCGTGTTG GTGACTAGAC
CGGTGCCAAT AGTCCGGTTG CCATCTCGCA GGGTGAAAAG ATGGCCTTTC TCTTAAG

SEQ ID NO:248:   (Length of Sequence = 281 Nucleotides)
ACAACAAGCA CACCAACTAT ACCATGGAGC ACATCCGCGT GGGCTGGGAG CAGCTGCTCA CCACCATTGC CCGCACCATC
AACGAGGTGG AGAACCAGAT CCTCACCCGC GACGCCAAGG GCATCAGCCA GGAGCAGATG CAGGAGTTCC GGGCGTCCTT
CAACCACTTC GACAAGGATC ATGGCGGGGC GCTGGGGCCC GAGGAGTTCA AGGCCTGCCT CATCAGCCTG GGCTACGACG
TGGAGANCGA CCGGCAGGGT GAGGNCGAAG TTCAACCGCA T

SEQ ID NO:249:   (Length of Sequence = 383 Nucleotides)
AGCGCATCCA CACCGGGGAG CGGCCCTACC CCTGCTCCTA CTGTGGCAGG AGCTTCCGCT ACAAACAGAC ACTCAAGGNC
CACCTCCGTT CAGGCCACAA TGGAGGCTGT GGGGGTGATA GTGACCCATC AGGTCAGCCA CCCAACCCAC CAGGTCCCCT
CATAACTGGG CTTGAAACTT CTGGCCTGGG TGTCAACACT GAAGGTCTAG AGACCAACCA GTGGTATTGG GGAAGGGAGT
CGAGGGGGAG TTTTGTAAAT CCAAATCTCT GTGGNTTCAT GCTTTGTATA TGCTCACAGC AGGGCACAAT AATCCAAGAG
AAGGTCTGTG AGCCCCNATC CAACACCCAC AGTAATTATA ATCTTGGCAC ATCAATGGAA TTT

SEQ ID NO:250:   (Length of Sequence = 397 Nucleotides)
GTATCCTACG TTACAACAAT AATATCATGG GAGAAATAGA AATAGCCTAG TTTGCTTCCA ATAGAAACTG CTTTTAACAT
GGGCTGTATA TAAAAATATT AAAGAGAAAC AAAACTGTAC ATTTCCTCAT TGCTCCGCTA CAGACAACCC ATGTCATAAC
CTTGTTGCAA ATATTTTTCT CCTATAGCAG TAAGTACAGC ATTAGAAGGT GATTAGAGAG TCTGTTGATG AAACACAAAT
GTATGTTTTT ATTGATTTTT ACTTTAGAAC ACTACAGAGT TCCTGGGACC GGGGTGAANG GCATTTAGCT GGGGTGGTTT
GTGTGGGGGT TAAATACCTT CCCACTTGCA AGTGACTTGC CTGTNCCCGC TGCGGGAATC CTGTTNCTTG GGTGGGA

SEQ ID NO:251:   (Length of Sequence = 276 Nucleotides)
GGCCATAAAA GAAAGAGCCT GTTACCTATC CATAAACCCC CAAAAGGATG AGACGCTAGA GACAGAGAAA GCTCAGTACT
ACCTGCCTGA TGGCAGCACC ATTGAGATTG GTCCTNCCCG ATTCCGGGNC CCTGAGTTGC TCTTCAGGNC NGATTTGATT
GGAGAGGNGA GTNAAGGCAT CCACGAGGTC CTGGTGTTCG CCATTCAGAA GTCANGACAT GGACCTGCGG CGCACGCTTT
TCTCTAACAT TGTCCTCTCA GGGAGGGNTC TACCCT

SEQ ID NO:252:   (Length of Sequence = 314 Nucleotides)
CCTGAACAGT CTGTTTCATT TGACTGTTTG GGGGTCTCCC AGTTTAAGCA AGATATATTAA GCCTTATTTC TCTTGGCATG
CTTGGATTCC CCAGTAAAAA AAACTCCTGC CCTGGGCTGA CAATCAAAGT TCTGGGAACT AATATGGATA AGCAAGCTGG
AAATGGAGAA GGCTATTCAC TGTGCCTGGG TCCTACTGTT TTCTGGNTGG GAACTGCTTT TCCATTAGGC CTGGTGTGCC
CTGGAAGGGA NGAGCCTCTT GCAGAGACTA CAATCTTGGA TGGGTCCTTT GCCAAGTTTG AAGGTAGGAA CCCA

SEQ ID NO:253:   (Length of Sequence = 293 Nucleotides)
GAACACTCTG CTCCAGCCAA GGTGGTGAGG GCAGCTGTTC CTAAACAGCG CAAAGGCAGC AAGCCACAGT CCCACAAGCC
TCAGCCTACC CGTAAACTGC CACCCAAGAA GGACATGAAG GAACAGGAGA AAGGAGAAGG GAGTGATAGT AAGGAGAGTC
CAAAAACCAA ATCAGATGAA TCAGGGGAGG AAAAGAATGG AGATGAGGAT TGCCAGCGAG GCGGGCAGTA GAAGAAAGGA
AACAANCACA AGTGGGTTCC ATTACAAATA GACATGAAGC CTGAAGTGCC CAG

SEQ ID NO:254:   (Length of Sequence = 413 Nucleotides)
CTTTTTCTTA ATATATTAAT ATTTACCAAG GCAAGACAGT GATTTATGGA CATTTAAATT AGTTTAGCTT TGTTCTGCTG
TTCTAAAACA TTGTGTACTG TCTGATAGAC TTTTAAAAAA CAGTGCTTTT CCAGGATGAT TTATGATATG CAGTATTGTT
TATAGATGCC CATGGCTTAA CCTTGAAAAG TCAATTAAGT GACACAATTA AGAGAGATAT GAATAGTGGT AGAAAAAGCA
TGTACTCTGG ATAAGTGGGG GTAAATCTAG TATTTGTTAT TCCTGTCAGT AATATTGTCA NTAGTATTTT TTAGAAGGTT
TAATTTTTTT ATGGTTATA AATTCATGTC ACTCTTCTGC AATGGGTACC ATCAGTGGGA ATGCNGGAAT TATCCATGCT
TTGGGGGTTA AAA

SEQ ID NO:255:   (Length of Sequence = 376 Nucleotides)
GGGTCCAGGG GAGAATCAAT ATATCTAGTA TAGTTTATAT TTGTACCTTC TCTCCTTAAG AGTTACAGTG AGTGACTCTA
CTCCTCAAAT GGAGCACCTC TCTCCAGGAG AGTAAGAAGA TCACATAAAT AGAAAGTGAG CTTTGGACTC TAACAGACAT
AGGTTCATAT TCAACTCTGC TACTTAATAT CCATATTGGT TTGAGTTATT TAACCTTGAC AATCCACACT GTAAAATGGG
TAAATAATAA ATACCCTCCT CTCAGAAGTG TTACAAAGTT TATATGAAAT AATGTGCTTA AAAAGCTGGG TACATAGTAG
GAGCTTAGTC ATTGTTTATT TTCTCCCTCA TACCCATACA TGNTTCATTC CTACTG

SEQ ID NO:256:   (Length of Sequence = 241 Nucleotides)
GTAGAGATGG GCTCACTATK TTGCCCAGGC TGGTCCTGAA CTCCTGAGGT AGGAGGATCG CTTGAGCCTG GGAGACAGAG
GTTGCAGTGA GCCGAGATCA CGCCACTGCA CTCCTGCCTG GGTGACACAG TGAGACTCTG TCTTAAACAA AACAAAACAA
AAAAAGGCCA GGCGCAGGGG CTCACACCTG GTAATCCCAG CACTTTGGGA GGCCAAGGTG GGTGGATCAC CTGAGGTCAG
G

SEQ ID NO:257:   (Length of Sequence = 406 Nucleotides)
CAAGGGTGTC CTTCGCCAGA TCACTGTTAA TGATTTGCCT GTGGGACGCT CCGTGGATGA GGCTCTGCGG CTGGTCGGAT
TAAGAAAACC AAGAGAGGCC GGGCACGGTG ACTCACGCCT GTAATCCCAG CACTTTGGGA GGCCGAGGTG GCGGATCATG
AGGTCAGGAG ATTGAGACCA TCCTGGCTAA CACAGTGAAA CCCCGTCTCT ACTAAAAATA CAAAAAAATT AGCTGGGCAT
GGTGGCACGC GATTGTAGTC CCAGCTACTA GAGAGGCTAA GGCAGGTGAA TCGCTTGAAT CCAGGAGGTG GGGGTTTCAA
TGAGNCCGAG ATCGTACCAC TGCACTCCAG CCTGGGGCAA CAGAGTANGA CTTCGTAACC CCCAACCAAC CCNCCAACCC
CCCGCC

SEQ ID NO:258:   (Length of Sequence = 157 Nucleotides)

152

GAAAAGAAGG AAGGAAAGAG GGGAGGGAGG GAGGAAAGGA GAGAGGGAGG GAAAGAAGGA GAAAATGCTG GAGCAAAGGA
GGTTGGTTAC ATGATTTCTC TAATGGCAAT GAGCTGCTTT CTGGATGAAA TACAGAATCA GAGCGAGACT CCGTCTC

SEQ ID NO:259:   (Length of Sequence = 361 Nucleotides)
AAGCAGATAT AAATGGGACC ACTGTGAATC AAAGGGGAAA AATTCCAGGA AAAAAAAATT CCAATAGCTT CACAGTTTAA
CTGAGGTTTT GGAAAAACTT AAGTGAATTC AGCTGATGTT TGAAATATCT GTCTACATTT AATTAGATGT GTTGTATTTA
CCAAGGAGGC ACAAATATGT AGTTCTGTAG ATTTTAATAC TAACTTTTCC AGTAAGAAAA ATAATACCAG GTGATTTCAA
AAAGGGCAGT GATCTATAAA CACTCAAAAT GCATCTTTGA ACAGGGGAGC AGAAATAGCT AATTTAATGA AAACAAACCT
TAAGCACTTT ACTTGGCTTC TAATAAGGCA TCCCAAGAAA A

SEQ ID NO:260:   (Length of Sequence = 349 Nucleotides)
CAATACATGT ATACAGTGTA CACTGATCAA ATAAGAGTAA TTAGCATATT TATCACCTCA TTTCTTTTGT GGTGAGAACA
TTTAAAATCC TTTCTTTTTG CTATTTTGAA ATATACAGTA CATTGCTATT AAGTATAGTC ATCTGGCTGT GCAATAAAAC
ACCAGNACTT ACCCCTCCTG TCTGTGACTT TGTACCCTGT TCACCACCCC TCCAATCCTC TAGTAACTAC CATTCTACTC
TCTACTTCTA TGAGCCTGAC TTTTTAAAAT TCCACATGTA AGTGAGATTA CATGGTATTA TTCTCTCNGT GGCTGGCTTA
TTTCACTTTA ACATAATGTC CTCTAAATT

SEQ ID NO:261:   (Length of Sequence = 415 Nucleotides)
GGAAGATGAG GATCTAGGTG TGAGCGTGCA GAGCCCTGAG GCTGGGCAGG CAGGGAGCTC TGCCTGCACA ATGATGTAGC
CATGTGTGGC CACACCAGCA CTGGGCAGCA CCTCTGGGGA GGGGGGCAGG GCAAGGACAA CTGGAGAGAC AAAGCCAGAT
GGGGCCACGT CCTTAGAAGT GTGTGTGCAC GCACATGTGT GTGTGTGTGT GTGTAATACG CAGGGCAGAA ACACACCATG
TAGGTCAGGC AGGACAGAAA CACATCATGT AGGCCAGGCG TGGTGGCTCA GGCCTGTAAT GCCAGCACTT AGGNAGGCCA
AAGTGGGCGG ATCACCTGAG GTCAGGAGTT CGAGACCAGC CTGGCCAACA TTGCAAAACC TCATCTCTAC TAAAATTCTA
AAATTAGCCA GGCGT

SEQ ID NO:262:   (Length of Sequence = 382 Nucleotides)
GGCATGGGGT CTGGCTTTAA TGTGTAACTG ACGTGGGTCA CTGAAACTGT TCAGGCTGAT CTTGAACTCC TAGGCTCAAG
TGATCCTGCT GCCTTGGCCT CCCAAAGTGC TGGAATTACA GGAATGAGTC ACAGCACCCA GCCGGCTGTG TTTTGTTTTT
TGTTTTTTAC CCCGACAGGT NCTCAGTCAG TCGTTAGCTG GAGTGAAGTG GCGTAACACA GCTCACTGCA GCCTTGATCT
CCTGGGCTCA AGTGATCCTT CCATTTCTTC CTTCCAGAGT AACTGGTACT GCAGGCCCAC GGCACCACAC ATGGCTAATT
TTTAAATTTC GTAGAGACGA GGTCTTGCCA TGTTTGCTCA GGCTCCAGCT GTTGTATTCT TT

SEQ ID NO:263:   (Length of Sequence = 447 Nucleotides)
TGTATCAACT CAGAATTTCC AGAGAGCTCT TCCTGGCTGA AAAGATGTCC AAGGATCATC TCCGGAATGG AAGAGGTGAG
GCCTGTTAGC TTGTGGGCTG CCCAATCCAT CCAACCCTTG GCATTGGGAT CAATGTTGAT GAGGACAAGA CCTTCAACAG
TGTCCGGGTG GTTAAGAGCA TATCTCGCCA GGATGTAGGC TCCAGCTCCA ACACCAACTC CAATTATTGT AGAGAAATTT
AGGTACTGCA GGACGCAAGG GATCATGTCT GCAAGCTGGT CCAGAGATGG GTACTGATAT CCCAAAGGGA ACACAGGGGC
TCCCTCTTCC ATTCCAGGGG CATCCACATG GACCGCACA AAGTTCTGAA TGATTTCCTG CATGTCCTCG AACTKGAACA
GTGGCTGGAG GAAAGATTTA TAGTTGAGTC CACATCGGGT AGGTAAG

SEQ ID NO:264:   (Length of Sequence = 317 Nucleotides)

TTTTCGCTGT CAACAGACAG TTTATTCTAT ATACAAACAC AATTTTGTAC ACTGCAATTA AATAGAATGG AATGAGCGCT
CCTCCGCATT CCTCCCCGAG TGACTGGTTT GGCCGCCGGC CACTCCATCC CCGAGTGGGA CTGGACCACG GCCCTGGNTG
CTGCCACTGA TGTTGGNGCC TGCACCCCAC GTCCCTATGC CCGAGGCGCA ANTCTGCTCT CCCGGGGACC CCAAGNCTGG
NGCACACGCG GGGAGGGCGG GGCCATGGAG AAGGCACTGC AGGGAGCACC AGGCAGAGCC GTGTTGAGGC CGGCCGG

SEQ ID NO:265:   (Length of Sequence = 270 Nucleotides)
GCAGAGCAGG TGGAAGTGAT CAGGAACCAT AGTTGACAGT TCCAATCAGT AGCTTAAGAA AAAACCGTGT TTGTCTCTTC
TGGAATGGTT AGAAGTGAGG GAGTTTGCCC CGTTCTGTTT GTAGAGTCTC ATAGTTGGAC TTTCTAGCAT ATATGTGTCC
ATTTCCTTAT GCTGTAAAAG CAAGTCCTGC AACCAAACTC CCATCAGCCC AATCCCTGAT CCCTGATCCC TTCCACCTGC
TCTGCTGATG ACCCCCCCAG CTTCACTTCT

SEQ ID NO:266:   (Length of Sequence = 297 Nucleotides)
ATGAGGCGAG GCCTGCGAAG TGGCTGGCAT GCAGCAGGTG CTAATGAGTG TTGCAAAGGT GATGTCACGC AGGCAGCTTC
CCGTGGCCAG AGAAACATTG CAGAGAAGGG ATAAGTAGGG CTTAGTGACT TTGACGGGTC AATGGAAGAA TGACCCAAAG
AAGGCTTCAA GGCCAGGCCT GCAGTTCTCC ACCACAAAGG CCCTCACTGA TAGCACCCAC TCCCCCACAC TCAGCTTTNG
GGCCTAGGTC TGGGTCACCC AGCTAGAAGC CACAGGACCC TGAGGCGTCC GAGGGGT

SEQ ID NO:267:   (Length of Sequence = 387 Nucleotides)
CTTGTTTTCA TCATGAGCTC GATCAGATGT CTCTCGATCT TCAGACTGGT GGTGTCCTAT AATGTCCTGT GCACGCATTC
TTGAGCTTTC CAGGATTTCT GTCTGTTCTC TCTGTTTATC TACAGAAGAA ACTTTCTCCT TGAGTTCCTG TTCTTCGTAG
CGCCTTGAAC TCTCTTTCCT TTCTGGTTTA CGATCCTCCT CTTTCCATCT ACCCTGTCTG TCTTCTGTGA GGTGCGAGGG
ACTAAGAGAA CGAGATTCTT GAGGTCGTAC AACTTGGCTC AAGAGTCTGT GTTTTTTCAT TTNTNATCAT CTCCACTGTT
GTAGGCATCA CTGTCCGGAG AATGTTCACG CCGGCGCTTT CGGGGGACTG TCTAGGGCTG GGACTCC

SEQ ID NO:268:   (Length of Sequence = 318 Nucleotides)
CCTGAAGGTT ACCTCTTTGG AGAGAACATG GATCTGAACT TCCTGGGCAG CCGCCCGGTC CAGTTTCCCT ACGTCACTCC
TGCCCCCCAC GAGCCCGTGA AGACGCTGCG GAGCTGGTGA ACATCCGCAA AGACTCCCTG CGGCTGGTGA GGTACAAAGA
CGATGCCGAC AGCCCCACCG AGGACGGCGA CAAGCCCCGG GTGCTCTACA GCCTGGAGTT CACCTTCGAC GCCGATGCCC
GCGTGGCCAT CACCATCTAC TTCCAGGCAT CGGAGGAGTT CCTGAACGGC AGGGCAGTAT ACAGCCCCAA GAGCCCCT

SEQ ID NO:269:   (Length of Sequence = 422 Nucleotides)
ACATGTCTAT TCAGGTCTTT TGCCCATTTT GAAATAGCAT TGCTTGTTCT TTTGCTGGAT ATTAACCCCT TGTCAGGTGC
ACAGTTTGCA AGTTACCTTT TCTCATCCTA TAGGTTATCT CCTCACTCTT GATTGTTTCT GTTGCTGTGC AGTAGCTTTT
AAGTTTGGTG TAATACCATT GTGTTTTCTC TGCTGCCCTT TTAAGTTTCA CTGGGTCAAA AGTTTAAAAT TTGTGAATTC
CTATATTTTT AGGGCAATTC TCCTGCCACT GTTGGAATTA TGCCTCAATC TATGCAGTAG AATATTAGTG TGAAATGCTT
CTGTACCAAT GGAGATGATG CTGGATGGTC TCTATCATAA ACCCATACCT CATCAACACA AACTGCAATT ACACAAGGGC
TCTATATCAT GGATCTCCAT TT

SEQ ID NO:270:   (Length of Sequence = 376 Nucleotides)
GAAGAAGAGC CCAGACCTAG GGGAGTATGA TCCACTTACC CAGGCTGACA CAGACGAGAG CGAAGACGAT CTGGTGCTTA
ACCTGCAGAA GAATGGAGGG GTCAAAAATG GGAAGAGTCC TTTGGGAGAA GCGCCAGAAC CCGACTCAGA TGCTGAGGTT
GCAGAGGCTG CAAAGCACAT CTTTCAGAAG TCACCACGGA GGGCTACCCC TCAGAACCCC TTNGGGGCCT GGAACAGAAG

154

GCGGCCTCCT CCCTGGTGTC ATATGTGCGC ACGTCTGTCT TCCTGCTTGA CTTTGGGGAT CTCGATGATC CTGGTGCTCC
TGTGTGCTTT CCTGATCCCC TGTCCTCCCA GAGATCTTGA CAGAACTGGA GCCGCA

SEQ ID NO:271:   (Length of Sequence = 346 Nucleotides)
TGTTCACGTT CCCTTTCTTT GTCTTTCTTT TTCCTATCTT TATCTATACT TCGACTCCTC TCCTTTTTCC TCTCTTGTTC
TTTAGCCTCA CCTTTATGCT TATGACTGTN CCCACTAAGA TTTCCACGTT GATCATCAAT TTTACGNCTA TCTCGACTCC
TACTGCGACT GGCACGATTG GTTCGTCTAT CCCTTGAGCG ACTTCTACGA ATGCTTATGA AAAAGAATCA AGTTGGNCAC
CAAATGTTTC ATAGCAGTAG GAAATTTCTT TTAGAGACTT CTGATGGGAA ATTTGAAGTG TATGTTGCTA TCAGATCAAG
TGCAGGAGAG GTATAAGGCT ACTGGA

SEQ ID NO:272:   (Length of Sequence = 394 Nucleotides)
GTTGTTGTTG TTGAGTCGGA GTCTCGCACT GTTGCCTGGG CTGGAGTGCA ATGGTGCAAT CTCGGCTCAC TGTAACCTCC
GCCTCCCAGG TTCAAGCCAT TCTCTTGCTT CAGCCTCCTA GTAGCTGGGA TTACAGGCAC CTGCCAGCAC ACCTGGCTAA
TTTTTTATAT TTTNAGTACA GACAGGGTTT CACTATGTTG GCCAGGCTGG NCTTGAACTC CTGACCTTGT GATCTGCCCA
CCTCAGCCTN CCAAAGTTTT TCAGAATTTT TTAAGGAAAC ACTTTTAACC CTTAAGGCTT TCTTTCAAAC TCAGATCCCC
TTACACAATT GATCAGACGT GGCAAAGTTT TGCTTCAAAG TTTTTGGACT GGGTTTCCAC TTTAGGCTTA CTGA

SEQ ID NO:273:   (Length of Sequence = 259 Nucleotides)
CAACCTGTAC CCAGGCTGCG AGAACGTRAG TTTRAGGAGC CGCAGCATGA TGTTCGAGCC GGGTCTTACC AAAGGRATGC
TGGAGGTGTT TKTGGCCCCG ACCCACCACC CGCACTGCTC GGCCGATGAC CAGTCCACCA AGGSCATCGA CATCCAGAAC
GCTTATTTRA ATGGAGTTGG CGATTTCAGC GTGTGGGAGT TCTCTGGAAA TCCTGTGTAT TTCTGCTGTW ATRACTATTT
TGCTGCAAAT AATCCCACG

SEQ ID NO:274:   (Length of Sequence =348 Nucleotides)
TCCCAGTTGT CCCGATTGTA ACTCAAAGGG TGGAATATCA AGGTCGTTTT TTTCATTCCA TGTGCCCAGT TAATCTTGCT
TTCTTTGTTT GGCTGGGATA GAGGGGTCAA GTTATTAATT TCTTCACACC TACCCTCCTT TTTTTCCCTA TCACTGAAGC
TTTTTAGTGC ATTAGTGGGG AGGAGGGTGG GGAGACATAA CCACTGCTTC CATTTAATGG GGTGCACCTG TCCAATAGGC
GTAGTATCCG GACAGAGCAC GTTTGCAGAA GGGGGACTCT TCTTCCAGGT AGCTGAAAGG GGGAAGACCT GACGTACTCT
GGGTTAGGTT AGGACTTGCC CTCGTGGT

SEQ ID NO:275:   (Length of Sequence = 396 Nucleotides)
GTTTGGTGAA TTTGGTCTGT GATAAAAATTG GAGTTCAAGA AACAAACAGG AAACTACAAG TGCCCCTTCG CCCCCAGGTC
ACCCGAGTGG CAGGGCAGTG ACCGCTGCTC TCAGGCTGCC CAGTGTGGAC CTGCCTGTCG GAATGCTCCT CCTCCACGTC
CCCTCGCTCC TGTGTCCCAG CCACATGCAC CTTCCCTCTA CCTCTGGGAT CCCTGCACCA GGTCTGCCCC TGTCTTCTCA
GGGCTGCTCC TNTTGGNCCA CAGGACCTCA GCTGGAATGT TGCCTCCTCC AAGAGGCCTT CCTGACTATT CAGCTCACAG
TGGCCACCCA GCCACAATCT GCCATGTGCT TTGGGGGATT GTCTGTTAAC TGGCAACATA CTGGCAGCCC ATAACT

SEQ ID NO:276:   (Length of Sequence = 381 Nucleotides)
GGTGTCGGGG AGGCTGCGCA AGGGGGCGAG CCCGGGCAGC CGGCGCAACC CCCGNCCCAG CCGCACCCAC CGCCGCCCCA
GCAGCAGCAC AAGGAAGAGA TGGCGGCCGA GGCTCGGAA CCCGTGGCGT CCCCCATGGA CGACGGGTTT NTGAGCCTGC
ACTCGCCCTC CTATGTCCTG TACAGGGACA GAGCAGAATG GGCTGATATA GATCCGGTGC CGCAGAATGA TGGCCCCAAT

CCCGTGGTCC AGATCATTTA TAGTGACAAA TTTTAGAGAT GTTTATGATT ACTTCCGAGC TGGTCCTGCA GCGTTGATGA
AAGAAGTGAA CGAGCTTTTA AGTTAACCCG GGATTGCTAT TNAGTTAAAT GCAAGCCAAT T

SEQ ID NO:277: (Length of Sequence = 206 Nucleotides)
TTAATACGAC AGGGCTGGCG CCCGAGTAAT TCAAGCCCTT CGGAAGTGTC ACCGGCTGCC AGGCCTCGGA TGCAATCCTG
GAGGCGGGAG ATTCGGCCTN AAGACTGGCT CGAGCCGCCC AGGGGCTCCA TGGGAGACTA ACGCGGAAGT YCCAGCCGTC
CCAGTGCCGT GACGTCCCCC CTTGGTGGGG CCTGCACCCG ACTACT

SEQ ID NO:278: (Length of Sequence = 260 Nucleotides)
ACCTGTAATC CCNGCACTTT GGGAGGCTGA GGTGGGCAGA TCACGAGGTC AGGAGATAGA GACCATCCTG GCTAACACGG
TGAAACCCCA TCTCTACTAG AAAAATACAA AAAATTAGCC GGGCATGGTG GCGGGCGCCT GTAGTCCCAG CTACTCGGGA
GGCTGAGGCA GGAGAATGGC GGGAACCCGG GAGGCGGANT TGCAGTGAGC TGAGATGCGC CCGTCTCTCC AGCCTGGGCA
ATAGAGTGGG ACTCCATCTC

SEQ ID NO:279: (Length of Sequence = 308 Nucleotides)
GTGTCTGGGC TCAGGGTTGG CCAGCTTGCA GAGGAGCAAG CTAGTAGAAA TATTGCAGGG TTCCCAAAAC CAGGTCAAGC
AAGATGCCAT GTCACCCCTG AGCATGCCTG TCTTCCCAGG GGTGTACCTC TTGGCTGGCA AAGCCAAGGC CAGTGGGNAC
TTGTATAAAT CACATGGGTA TGTTCTTGGT TCAGTGATCT TGGAGTGATG ATGGTAACTN ATGAACAGAG AACTTTYYAG
AACTTKGGTC CTGTCTTCCT CCCTGAACCT AGACAAGTTT CACCCCTCCT CCTGTACCCA ACCCCATT

SEQ ID NO:280: (Length of Sequence = 402 Nucleotides)
ATTTTAGCAG CTTTCTTGAA ATTTAAAATA TATGTGTAAG TATCTCATTT ATATGCATTT CTAGTTTCTT TATACAACAG
AATAACTTCT TTTACATCAA ATTTCTGAAT TTGACTAAAT TTAGAAATAA TGGAATCTCA TCCATTAAAT ATAGTCATAG
AAGGAAGGAA ATATGAAAAT TAGGATTTCA GATGTTTGAA CATAAAAGAT AATTTTAAAC ATTGTCAGTA ATCTATTTCT
TTTTTTTTTC GAGACGGAGT TTTGCTCTGT CACCCAGGCT GGAGTGCAGT GGCGCGGTCT TGGCTTACTG CACCCTCTGC
CTCCCAGTTC AAGTGGATTC TCCTGCCTCG NCCTCCTGAG TAGCTGGGGT TACAGGGGCA TGCCAACATG CCGGGGCTAA
TT

SEQ ID NO:281: (Length of Sequence = 313 Nucleotides)
GAGAATCCGT CTTAAAAAGA AAAAAAGAAA ATTATAGAGG GAGATGAGGT GGGACAGAGT CTGGCAGTTC ATCAGGGGGA
CTGAGAAGGT GGCATTTGGA GGAGAGGAGG CAGTGAGCTG TGCAGTGTCC AGGCAGCCAC CCTTCCCAGC GGCCACCATG
ACGGTGTCCT CATTGCTTTA ACCATTAGTA ATCATTCATT CATTCATTCA TTTATCCGAC GTCAGCTGGA GGNCCTGCCC
GNGGGGCATG CGCTTAGATT TNGGAGGCCT TCCGGGATGC TTGCGCTCCA ACGGGGGAAG GCCGACTTGG GCT

SEQ ID NO:282: (Length of Sequence = 217 Nucleotides)
TGACCTCAGT TGATCCACCC ACCTTGGCCT CCCAAAGTGC TAGTATTATG GCGTGAACC ACCATGNCCA GCCGAAAAGC
TTTTGAGGGG CTGACTTCAA ATCCATGTAG GGAAGTAAAA TGGANGGAAA TTGGGGTGCA TTTTCTAAGG ACCTTTCTAA
CANATGGCTA TAATNTAAGG GGTTTAGGGT CCTTTTTTTT TTTTCAGGGA TACATTT

SEQ ID NO:283: (Length of Sequence = 327 Nucleotides)
TAGAGAGCGC TTTACTCCTG GTCCCATGGC GTAAAGATGT GGCTGGGCCT GACAAGGCTC AGCCTCCAGT CTTAAGATGG
GCACAGAAGG GCAAGAAGTA AGATGACGAG TCCCAGAATT AGGACAAGCC ATGAGCCAAG GCCTGGTCTG AGCAAGGGCA

GCCCCCTGTC CCAGACACAG GCACCCCCAA TCTCACTTTG GACAGAGCCA ACGTGGGGGG ATCCTCCCGG GCCTGGGCCT
GTCAAGTCTG CCTGCAGGAC CCTGCCATTG TGCTCAAATC ACAACCATTT TTTGCTTCCA ACATTTTAGG GTGCTTGTGC
AGTGAGT

SEQ ID NO:284:   (Length of Sequence = 340 Nucleotides)
CTTTGGAAAT GTAAATTGTT ACAAACTTAC TTTAGAGCAA ATTTAGTCAT CCTTCAAAAA TTTAAATGTA TACTTATTTC
CTAAGAATTC GTTTGGCTCA CACAATTGTG AAAAGATAGA TGTACACCAG TGTTCATTAC AACAATTATG CAACAAATCT
ATTATGTGCC AGACATTATT CGGAACTCTG GGAATACATA AGTGAACAAA GCAGATTCCT GATCTCAGGA CCTGGGGTCA
GGGGTCAGGA GAAGCCAAAA AACACGCTNG AGAAATACTT TATGCAGTGT GGGGGGAGTG CTACCAGCAG AGCAGGGGAT
GGNGATGTGA AATCTTGTGT

SEQ ID NO:285:   (Length of Sequence = 335 Nucleotides)
GACATTCACG GAGGTGGGTT CGACCTCCGG TTCCCCCACC ATGACAATGA GCTGGCACAG TCGGAGGCCT ACTTTGAAAA
CGACTGCTGG GTCAGGTACT TCCTGCACAC AGGCCACCTG ACCATTGCAG GCTGCAAAAT GTCAAAGTCA CTAAAAAACT
TCATCACCAT TAAAGATGCC TTGAAAAAGC ACTCAGCACG GCAGTTGCGG CTGGCCTTCC TCATGCACTC GTGGAAGGAC
ACCCTGGACT ACTCCAGCAA CACCATGGAG TCAGCGCTTC AATATGAGAA GTTCTTGAAT GAGTTTTTCT TTAAATGTGA
AAGATATCCT TCGCG

SEQ ID NO:286:   (Length of Sequence = 399 Nucleotides)
GCACAATTAT TAAAAAGAGG CCACTTAAAT TCAACTCTCC ATGGATACAG TGTCTGTGGC AATGTTTAAT TAGAGATTAA
AATTGAGGAA TTGAATAATT GAGGTTGCTA ATGAATTTGA AAACTCAGCA AAGCAAGGAG AGCTGAGCGT TTTTCCGACT
TAGCTTTTCT TTCTCTAACC CTTTTCTCAT TTCCTACTAT TATCACATNT CTGGCCTTGA CTGCTGAGTT TATTACTACC
CATAACCCTG GCCTAAGTGG AAACAAAAAA GCTGTAGCCT CTTTGCTGAG CTCCTGGAGA CATTTGGTCT ATTGGATTTA
TGACATGTTC AGAAGCTTGC AGTTGCAGGA GGCTGACAAT GATGAAAATG AGATATGNTG GGCCACCACG CTTTTCTGT

SEQ ID NO:287:   (Length of Sequence = 294 Nucleotides)
TTCCAGTTGA ATTCACCAGT GGACAAAATG AGGAAAACAG GTGAACAAGC TTTTTCTGTA TTTACATACA AAGTCAGATC
AGTTATGGGA CAATAGTATT GAATAGATTT CAGCTTTATG CTGGAGTAAC TGGCATGTGA GCAAACTGTG TTGGCGTGGG
GGTGGAGGGG TGAGGTGGGC GCTAAGCTTT TTTTAAGATT TTNCAGGTAC CCCTCACTAA AGGCACCGAA GCTTAAAGTA
GGACAACCAT GGAGCCTTCC TGTGGCAGGA GAGACAACAA AGCGCTATTA TCCT

SEQ ID NO:288:   (Length of Sequence = 391 Nucleotides)
TCTACAGATG AGGAAAGCAA GCCTCAAGCA AGGGGGGCCT GATCCTTTCC CTGTTCCCTG TGTATTCCCT GTCTGTGGCA
AAGCCCATTG CCTTGATTCT CTTCTCTTTA CTTTCATGTT GAGAAGTAGT TTCTTTCTGC AGTTTATTTA ATTTACTGGC
AAAATGACGT ATTTTTTTTT CAGCAATGTT TCAGCTAGAT ATTTGCTTTA TGCATGTAAT GTCAATGAAG TACTCATAAG
TTTTCAAGAA ATGACTGATA TAAATCATGT GTTCCACTAC ATAGTCTAAA TATTTAGTAT TTGGTCATCT ATTTTAATAT
GTTCAAATTC TGTTAAACAA GNCATAGTCA CTATGTGAAG ATAAAAATAG NCAAAGTTGC ATTATGACTT T

SEQ ID NO:289:   (Length of Sequence = 198 Nucleotides)
CTTATATTCT ACTTTATTTG GTAAAACTCA GAAACTAACA ATTCACATCC TCCCACCTTC TTCTTTCCGA AGAACGCAGT
TTGCAGAGAC AAAAGGGCTG TGGCGTGGGG ATCATCCACC ATCTCCAGGT TTTACACCCA GGCTACCCAT GGCTTGGCAG
TCAGGCCTCT AGGCTGATTG CTCTCAGAGG CAATAGAA

SEQ ID NO:290: (Length of Sequence = 353 Nucleotides)
GGTTTTCATC TTCGGTTTAC AAAAGTCCTA CTATTTATTT ATTTTAACTT TAATTTAAAT ATCACCTACC TTAGGTAGAA
GTTTTCCTTT GTGTAATATA ATATAAAACC GACATTTCTT GGGGGCATAA TAGTAAAGAT GTTAACATTT TTTGGTTCTT
TTTGGATGCT GTATTTGTGC TTCTTCTGAA AGTGATGTGT GCCAAGATGG CTCATGTAAC CCAGTTTTGA CTAGGCTATT
GATATTCTGT CTGGTTAATT TATTGAACTG GCTTAAAGCT ATACATATTT CCTTTTAGNTGTAA GATATTCTAG
ATATATTGGT CTACTGATTC ATAATATCAC TGG

SEQ ID NO:291: (Length of Sequence = 163 Nucleotides)
CCTGGTAGGC CTGCTACACA GTCTTGCAAC GNCCCTCGTG CTTGGGCTTC TGCGGTGAGG CAGGGGAGTC TGCTTGTCTT
AGATGTTGGT GGTGCAGTCC CAGGACCAAG CTTAAGGAGA GGAGAGCATC TGCTCTGAGA CGGATGGAAG GAGAGAGGTT
GAG

SEQ ID NO:292: (Length of Sequence =397 Nucleotides)
ACGGGAAGGT GAGTATGTNA GTATGTNTGC CAGACAATGG TGTTTCCATG TCAATGGAGG TTTCTCAGAG AGAGGTGATC
TGGCTGGAGA AAGCTTAATC TGGTGGCAAT GGACAGGTGA CTTTAAGAAG TGGGGAACGA GGGAAGGAGG CCAGTTTGAA
AATNATAACA AGGGTCCAGA CTCAGTGATG CAGCAGTGAC CATGAGAACA GAGCAGCTGC AGGTAGAAGA TGGAGACAGA
ACTNGGGAGA TCTGGTGGAG GTAAGCCGCG TGGAAAGATG ATGTCAGGTT TATACCTAGA GGACACATGA TCCATTCACA
AAGCCAGGGG NAACCTAAAG AGAAAACACT TAGAATTTTN GGAGAANAGG CTAGGGCTGG GCCTTAGACA TGGGCTG

SEQ ID NO:293: (Length of Sequence = 360 Nucleotides)
GAGGTAAAAT TTACATACAG TGAAATCCAA ATCTTAAGTG TACCACTAGA TAAATTTTGA TAAATGCATT ATGCCTGGTC
TTCACACACC CTTTTCAATA TATAGAAAAT NTCCAGATAA TTTATTTTGT TGTTTTTTTC ACACACTAAG TTCTAGACTT
TTCCAGGTCC GAGGGAACTA TTAGGGGGGA AAGTACTTGT NATAGTAAAA AAGATTTTAG GTGTGTTTGT TTTTAAGGTG
CAGAAACACA TCGCAGATTT AAGGTCTGCA ATCTCTGCTT TTTGTTATTG TTCCAGTTTT GATCTCAGTG ACATTACAAG
CAAGCAGAAA CACTCAGACA TGAAATGGCC CAG

SEQ ID NO:294: (Length of Sequence = 321 Nucleotides)
TTTTTTTCAG GNTTCAACCG TTTTATTGGG AGGTTTTGTT TTCTGTGAAA TACACTAGAG GGTGGGGAAG GGGACACATT
CACTTTGCAA GATAAGGGTT TCCCACCACT AAAGGAAAGG CATGGGGCAG GGCACACTGG GGTTTGGGTC CGTTTTCCCA
CCTCCTTCTG CTTGGCTCAC TTTTCTTTTC TCTCAGCAAG TACCACAGAA CACAAAGACA AGAAACAAAA CAGCAAATCA
ACCTCCAACG GGGCCATGCC AAGCCTTCCC CACTCCCCCA GGCTGGGCAA GGGCTGGGAG GGGGCTGGGG CAGCTCACTC
G

SEQ ID NO:295: (Length of Sequence = 165 Nucleotides)
GACACACAGC GCCTCCGGCC CCGCACAGGG GGCATGTCCA GAGGTGCTGT GTGTCACCAA CTGGTCTTCT AATTTGGAAG
GAGTTGGAAA GGCCTTTTTG TTGATGAAAA GTTGGAAACA GTGGCACATA TCTNAGAGGG AGGAACGAGG CAGCGTGGTG
AAGCG

SEQ ID NO:296: (Length of Sequence = 315 Nucleotides)
UGAATACAGG TAGTGCCCAG CTGGTTGGGC TGGCCCAGGA AAATNCTGCT GTGTCAAATA CTGCTGGCCA GGATGAAGCC
ACAGCTAAGG CTGTGTTGGA GCCCATTCAG AGCACCAGTC TAATTGGGAC TTTAACCAGG ACATCTGACA GTGAGGTTCC

AGATGTGGAA TCTCGTGAAG ACTTAATTAA AAATCACTAC ATGGCAAGNA TAGTGGAACT TACGTCTCAG TTGCAGCTGG
CTGACAGTAA GTCAGTGCAT TTTTATGCCG AGTGCCGAGC ACTGTCTAAA AGACTNGCCT TGGCTGNAAA GTCTA

SEQ ID NO:297:   (Length of Sequence = 244 Nucleotides)
AGTACGGTTN NCGCTNAAGC TTGATNATCG RATTGCCAAT CTNCATATTT GTGTTAGAAT CATTTGTTTT TGTGTCTTCA
TGTTTCTATA AGATAGGACC AATATTCTTT ATTGGGCTTT GATTTTATTT TGTAACTTAA ATGTATTAAG GCAATAAATG
TAATTTTCCA CTNAAAACTA TCATTATAGA TTTGGTTACT ACCTACTGCT CAGCAATTTT TTTTCTTATC AAAATTCTTC
CTGG

SEQ ID NO:298:   (Length of Sequence = 152 Nucleotides)
CCTGAACAGG TAATGAGAAA AATTTACACA CAAGTGATTT TGAAAACAGA ATGGGTTGCT TACAAATTAC AGGAAATGTT
ATAACACAAA CCAGAAGAAT TCAATGGAAG GCAATAAGGGAAAT GAAAATTATA AAAGTATCAN GA

SEQ ID NO:299:   (Length of Sequence = 374 Nucleotides)
CGATGTTTTT AATGTCATCA CACGTTGTCT CAAAATGAGT GGTGGCATCA TATGTGCGGG AAATAAAGAT CTGGCTTTCT
GTTCCCAAGT CTTTTGGTAC CAGGAGGTCA CTGATGCTAA CAAATTTCTG TTCAATTGGT TCCAAGAGCT CCAAAGCTGG
TCTGATTTCC TTCTCAGGCT CCTTGGTTTC CACAGTTGTA CTAACTATAG CAATGTACTT CCCTTGTGCT GCTACATTGT
GCGCAAAGGA GATCATGCAG ACGTAGATAT CTGACTTTCG ATTGACTTTG GTTCTGTGGA ATAATGATCT GGCAGGAGTT
GGCATCATTG GTGTTCTTTG ATGGGGGTGG CTGAGGGATG CAAATAACCT CTTG

SEQ ID NO:300:   (Length of Sequence = 365 Nucleotides)
GGCTCACCAA GCTCAGCAAG TACGTGTACT TCTTCGAGGC CTGCCGGCTG CTGCAGAAGA TGATTGACAT CTCCCTGGAT
GGCTTCCTGC TGACTCCGGT GCAGAAGATC TGCAAGTACC CTCTGCAGCT GGCCGAGCTG CTCAAATACA CGCACCCCCA
GCACAGGGAC TTCAAGGATG TTGAAGCCGC CTTGCATGCC ATGAAGAACG TGGCCCAGCT CATCAACGAG CGGAAGGGTA
GACTTGAGAA CATCGACAAG ATTGCTCAGT GGCAGAGCTC CATAGAGGAC TGGGAGGGAG AAGGATCTCT TGGTCAGGAG
CTCAGAACTC ATCTACTCGG GGGGAGCTGA CCTCGGGTTA CACAG

SEQ ID NO:301:   (Length of Sequence = 224 Nucleotides)
GGTATTCAAA CAAATAGCCT GAGAATTTNG GGGGATCTG AAATAGAGTA CTATGCTATG TTGGCTAAAA CTGGTGTCCA
TCACTACAGT GGCAATANTA TTGAACTGGG CACAGCATGC GGAAAATACT ACAGAGTGTG CACACTGGCT ATCATTGATC
CAGGTGACTC TGACATCATT AGAAGCATGC CAGANCAGAC TGGTGAAAAG TAAACCTTTT CACG

SEQ ID NO:302:   (Length of Sequence = 363 Nucleotides)
AGTTTCACTC TTGTTGCCCA GGCTGGAGTG CAATGGCGTG ATCTCGGCTC ASTGCAATCK GCACCTTCCG GKTTCAAGCG
ATTCTCCTGC CTCAGCCTCC CAAGTAGTTG GGATTACAGG CATGCGCCAC CATGCCCGGC CAATTTTTKTA TTTTTCGTAC
ACACAGGGTT TCTCCATGTT GGTCAGGCTG GTCTCAAACT CCCAACCTCG GTGATCCGTC CACCTCGGCC TCTCAAAGTG
CTGGGATTAT AGGCATGAGC CACTGTGTCC GGCCAGCTCA AACAATTTTA ATGCTTCTTT CAAGNCTATT AGAAACCTTT
AATTGCTTCT TAAGTTTCTC CCCCAACTAT GGAGGAAGCA TAT

SEQ ID NO:303:   (Length of Sequence = 253 Nucleotides)
ATGCAGGAAS ATCTACCARG CAAATCGAAA ACAAAAAAAG GCAGGGGTTG CAATCCATCT CTCTGATAAA ACAGACTTTA
AACCAACAAR RRTCAAAAGA CACAGAGARG GCCATARCAT AATAGTAAAG CGGATCAATT CAACAAGAAG AGCTAACTAT

CCTAAATATA TATGCACCCA ATACAGGAGC AACTAGATTC ATAAAGCAAG TCCTGGAGGT GCCTACAGAG GAGGCTTAGG
CTCCCACACA TTA

SEQ ID NO:304:   (Length of Sequence = 416 Nucleotides)
TTTTTTTGAG ATGGAGTACT CGCTCTCTTG CCCGGGCTGG AGTGCAGTGG CGCGATCTCG GCTCACCTGC AACCCCTGCC
TCCCCAGTTC AAGAGGTTCT CCTGCCTCAG CCTCCCGGGT GGCTGGAATT GCAGGCACAC ACCACCATGC CCAGCTGCTT
TCTTGTATTT TTAGTGGAGA CGTGGTTTCA CCATGTTGGC CAGGCTGGTC TTGAGCTCCT GACCTTAAGT GATCCGCCAG
CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC CGTGCCCAGG CTGTTTTTTA ACTGACTTTG GATTTTACTC
CCTTTCTATG CAAATTTATT TTAGAATCTG TTCCTTAACC TTAGGGGGTT GGGTTAGACA AGTTTCAAGG GAGCCTCAAG
TGKAAATTGC TTAAGG

SEQ ID NO:305:   (Length of Sequence = 223 Nucleotides)
CACACCCAGC TAATTTTTGT ATTTTTAGTA GAGACGGGGT TTCACCATGT TGGCTTGGCT GGTCACGAAC TCCTGGCCTT
GAGTGATCCC CCTGCCTCAG CCTCCCAAAG TGCTGGGATT ACAGGTGTGA GTCAGCGTGC CCAGCCCAGA TTTTATTGTT
TTAATTACAA ATTTTACGTT AACTGATTCT GCACATTTAT ATTTGCACAC TTGTGCTAGT GAG

SEQ ID NO:306:   (Length of Sequence = 169 Nucleotides)
GTTTTGCCAC ATTGGCCAGG CTGGTCTCGA ACTCCCGACC VVGTGAGCCA CCTGCCTTGG CCTCTCAAAG TGCTGGGATT
ACAGGCGTGA GCACCACGCC CGACCCATAG CTCTTTACAA CTGCCTTGTA AAGAAAGCAT CATTTGGCAC TGTTAGTATT
TCTCTTGAA

SEQ ID NO:307:   (Length of Sequence = 303 Nucleotides)
GATTTGGTAC AGAGTATGTC AGGAAGACAA CTCAGATTGC CATTTTAAAT AAAGTTGTAC ATGAACAATA ATTGGAATCA
TCAGGTAATT TTTTTAAACA AAGGTTCTTC ATTTACTGTT ATGATTGGAA AAAAAATTAG AAAATAAAGT AAGTSCCATA
GGCTAATTAA AAAATAAAAC CTTGGCCGGG CGCGGTGGCT TACGCCTATA ATCCCAGCAC TTTGGGAGGC CGAGACGGGC
AGATCACGNG GTCAGGAGAT TGAGACCATC CTGGCTAACA CGGTGAAACC CCATCTGTAC TTG

SEQ ID NO:308:   (Length of Sequence = 143 Nucleotides)
ATCTAGGAGG CTGAGGTGGG ATCGCCCCAG TACTGGAGGT CAGGGCTGCA GTCAGCCATG ATCATGCCAC TACACTCCAK
CCTGGGTGAC AGAGTGAGAC CCTCTSTCAA AAAACCTCAG TCAATVCAAA CATACAGTAT ATT

SEQ ID NO:309:   (Length of Sequence = 199 Nucleotides)
CCCACCCTCA TAANCCCCAC TGGGGAGTCT GGGGGCCTCT ATTGCCATGT GCCTGGAATN ATNATATGCT CATCACTTTA
TGAAGAATAA AATTTGTNTT TCCTGCCTTA AAGTTACATT CGTTCTTCCG CTCAAATCCT GATCTGGTCC ATTAAAGAGT
GTTCGCAGAC AAAGTTTCTG AAAGATTAGA GAAGAATCC

SEQ ID NO:310:   (Length of Sequence = 426 Nucleotides)
TCCCTGTACC ACCTCTTCCT GAATACGGAG GAAAAGTTCG TTATGGACTG ATCCCTGAGG AATTCTTCCA GTTTCTTTAT
CCTAAAACTG GTGTAACAGG ACCCTATGTA CTCGGAACTG GGCTTATCTT GTACGCTTTA TCCAAAGAAA TATATGTGAT
TAGCGCAGAG ACCTTCACTG CCCTATCAGT ACTAGGTGTA ATGGTCTATG GAATTAAAAA ATATGGTCCC TTTGTTGCAG
ACTTTGCTGA TAAACTCAAT GAGCAAAAAC TTGCCCAACT AGAAGAGGCG AAGAAGTTCT TCCATCCAAC ACATCCAGAA

160

TGCAATTGGA TACGGAGAAG GTCACAACAG GCACTGGTTT CCAGGAAGCG CCATTTACCG TTTTTMATGG GMCAAAGGGA
GTTACATTGG CTATGGCTTT TGGAAG

SEQ ID NO:311:   (Length of Sequence = 489 Nucleotides)
TCGACTCGGT CCTGGATGTG GTGAGGAAGG AGTCAGAGAG CTGTGACTGT TTCCAGGGCT TCCAGCTGAC CCACTCTCTG
GGGGGCGGCA CGGGGTCCGG GATGGGCACC CTGCTCATCA GCAAGATCCG GGAAGAGTAC CCAGACCGCA TCATGAACAC
CTTCAGCGTC ATGCCCTCAC CCAAGGTGTC AGACACGGTR GTGGAGCCCT ACAACGCCAC CCTMTCGGTC CACCAGCTGG
TGGAAAACAC AGATGAAACC TACTGCATTG ACAACGAGGC CCTGTATGAC ATCTGCTTCC GCACCCTGAA GCTGACCACC
CCCACCTACG GGGACCTCAA CCACCTGGTG TCGGCCACCA TGAGCGGGGT AACACCTGCT TGCGCTTYCC GGGCCAGCTG
AACGAGACCT GGCAAAGTGG CGGTTGACAT GGTGCCTTTC CTGGCTGAAT TTTTAATGCC CGGTTTGGGC CCTACCAGCC
GGGGAAGCA

SEQ ID NO:313:   (Length of Sequence = 302 Nucleotides)
CTTCTCATGC CAGTCTAATG ATTGTTTTTA GAAAAGGATA TACATTGACC TTCAATGTAA TAAGAAATGC AACACTTTAC
GGTGTCCAAC TGCTAAGATT TATTTCCAAC TTGTCAGACA CAACTATTTT GCCCAATCCA AATCAAAGGG AATCAAGGCT
GTGAAATCCA CACAGGACAT CAACGCACAC ATAAATGAAA ACTACAGATG TGTCAGAGGC AACCATATAC ACACAAATAA
TGTAACTACT AAAATTCCATG AAGTAGCTGT CCAGGGAATA CTTTCCAAAT AACCTTCAGC AG

SEQ ID NO:315:   (Length of Sequence = 339 Nucleotides)
CGCGTTATTT AAAATTGTGAA AAATAATGAA TATTAATTTG GAGCATAATA TTTAAATACA TGAAAAAAGC TGGCTGGGAA
ATGTTGGCAT GACTTTTCCC AGATGTTAGC ACTGCTTCAA CTTTTGAGAG NGCACTCTGA GTGTAAGTTT ACTAGACTGA
CATTACTAAA ATCATTGGTG CTATAGAGGC AGGAGAATAC GGGGAATAAG AAAGCCAGTT GCAAGCCAAC AATCCTAAAA
CTCCTCCTTT TGCCATGGAC TGACGGCATA TTAAATGAGA TCATGCATTT TAAGGNATTA ACAGTGTACA CCACATGTGC
GTGTTCCAAT AAAAGGAAG

SEQ ID NO:316:   (Length of Sequence = 430 Nucleotides)
TAAG TGGTG GTGCTGTTCT GGATGCTTCC AGTGGGCCCC GACCAGGTCT GGACAATGCC TGGCGCCCGT CCCCCGCCCC
TCATCTACAC ACACGCAAGA NTTCGGAGCT CCATGGGAA CAGAAGCAAG ATATCCGTAA AATCAAAGTC TAGGGGGTGG
GAATGAAAAG GGAAAAGTGA GGAACGGGGA GCCAAACCCA GGAAGACGCC TCTTTTCCTG CACATTCCCT CTCCTTTATA
TACTCAGCTC TTGGCTGTCT CCAGTATGTA CCCACCCTGG TCTTCCAAGC TGGGAGCCAC TTTTTATAAC ACAATCACAG
TTTCACAAAC CCCAGGAAGG TTCCATGTGG NGAGAGGTTA AGTTTCGNCC TTGTCCGGGG AATTATGACA CTCAGAATAT
CCCCTTTGGT GTAAATGGAA GACAACCTTT

SEQ ID NO:317:   (Length of Sequence = 317 Nucleotides)
GTTAATGCTT CTNATACCTA ACAAATCCTG GAGGGCAGNC AGCACCAACA CTCAGGGTGC TGGGAAAAGG TGCGTGAGAG
ATCTGAGGCA TCTCGGGGGC AGGGGAGGGC TGGGAAGGCA GGCTGGCTNG GACCCTCGCA TCTTAACCTA ACCTTGACCC
TCTTTCCATG AGCAGAGTTC CGATGCCCTG GAAGCCTGGG AGAGTGGGGA GAGATCCCGG AAAAGGAGAG CAGTGCTCAC
CCAAAAACAG AAGAGTGAGG CTTCCAGGGT GCAGCAGGGG TGGGAGGTGA TCAAGCAGCG TGGGGATTGT AAGCCCG

SEQ ID NO:318:   (Length of Sequence = 407 Nucleotides)
CTCGCCCCGC ACCTTCCCCG CCTATGCCCC TCGCTGAGAT AGNCCCTTCC CTCCTCCGGG AGCCTCCCGG GCCACGCGAC
CCTCAACTTC NCCAGCCGCT CCACCCACGC TTCCTGGACC GCCTCCTGCA GGCGANGCTC ACANCCAGCA CTGTCCCTTA

CAGTCGCCAT GCCCCTGGCG ACCTCAGTGT CCCACTCTGT AAGGGGACAA TGCAAATCCC TTTGCCTCAT AGGGTGCATG
TGCCAGTNTT GATAAAGTGC TGGCCACAGG CCCTGCCTTC CCAGGGCTCA CAACACTGTG TCCCTGACAC ACCCGTGGGC
TGTAGTGATT CTNTTCATGG GGATTTGACT ATAACCNGCA GTCAGGAATG AATTTCACAN CATAGCTCAG TACATACACA
CATATCT

SEQ ID NO:319:   (Length of Sequence = 382 Nucleotides)
CACTGCACAC CTGCGGTTGG GGACAGGACA TGACTAAGCA CAGAGCTTTC TTCTTTTGAG GCCACGCATG TGGTGCAGAG
CGGGACCACC TGCATCCACA CAGCCCGGCG CACCTGCTCC TACTTCTGCT TAGCGTGTGA GCAGCTTGGT GACCAGGGTC
TCCACCAGGG GGCAGGCCAG GACCGGCTTA CAGCACTTTC TAGGGGTTCT CTGGTCCCGG GCTGGGACAC ATACAGGGCT
TAGTAAAGTT CATAGATGGT AGCTAGGCAG CCCCAGGCCC CAGGTGACAC CTNTCCCCTG CCTGNCCTGT ACTGNCTGCC
TGCAGCACTC CTGGGAATCT TGTACGAAGA CAAGGAGAGA CAGGACTTCA TCTTCACCAT CT

SEQ ID NO:320:   (Length of Sequence = 368 Nucleotides)
CATCCGGGGC ATGGACAGCC CCCGGGGTGN CCGCCCGCNC CCCCCTCGCC GCGTCGCGTG CNGTTCACCA GGCAGCACCT
GGACAGCTCC AGAGTCGGGG AAGCGCCATG GTTCCTGCGC AGAAAGGATG CGGGTTGGGG CCGGCAGATC CTGCCAGGAC
TAGGGGCCTT CCCTTTCCAT CAGGAGCCTG CAAGAGAAAC AAGAAAACAT TAGAGGGGCT TCTGTGTAGG GGGAGGGCAA
GTTGAGTCTA TCTTTCCTCT TGTAGGTACT AATTAAACAC CTGCTGTNTG CCTGGTACTN TGCAGGGTGG GACAGGCATC
ATAGCAACTC ACAGTGGTCC CCTCTTCTTT GTGCCCATAG TCTAGTAG

SEQ ID NO:321:   (Length of Sequence = 355 Nucleotides)
GGTGGACTGT GCTGTTGAAC TGAGCTGAAC TGGGATCAGG AGAAGGAGAA GTGGGGATTG AGCCCCTCAC CTCCACACAC
TCCTCTCTGT GCCTGAAATT CCTCCATTAA GCAGCATCGC TGTCCCCTGT AAACACCCAC ATTAAGCCAT TATTCATCTT
ATGGCTTNAG TAGGCGTTAG TCCCTCAGAT CCTTTCCTGC TGAAAGCGGA TCCTGATAGA GAGAAGGGAA GAGAGATGGA
TGGNTCTGGG GACGGCAGGC TGGTCCAAGA GTGGGGAGGA AAGATGTCTC TCGGACTCTN GGGNAAGAAA TATTTTCTGG
GGGAATATGG AGGCACCANA GGCAAGCTCA AGAGG

SEQ ID NO:322:   (Length of Sequence = 225 Nucleotides)
CTCTCACTTC TCACCAGGCA CCCACAAAGC CCCCAGGCAG CTCCATCTTT CCAATCCANT CCCATTATCC CAATCTCTAC
CCCAGGATCC CCCAAACTCC TCCCACTTCA CCTCTGCCAC AGACCCGCTC GCCCCCAAAC TTCAGCCTNC CCTCATCTGC
CCTNACCACC CACAGCCCCT CCTACCTAGC CCTCTCCCGC GACGGGCCCG CGGGCTCCCC ACATT

SEQ ID NO:323:   (Length of Sequence = 250 Nucleotides)
CTCTCGCTCC TGTCCGTGAC CTTGCAGATG CAGGTGACAG CCTGCCCTTC CGTTTTTNTC TTTCCAGTCC CGCCTGCCGG
ATTGGGTTCC AGCCCTGCCC ACACGCCCGG TACATCCCGC CTACACTCAC CGATGTCGCC TAGCAACCCG GCTCGCCGCC
AGCATCCGCA ACCGAGGTCC CCGCGCTCCA GTTCTCTGGN GGGGAGGGAG AGGGGTGTTG CTTCTCCAGC CCCCTGCAGC
CTGGTGTCTT

SEQ ID NO:324:   (Length of Sequence = 338 Nucleotides)
GTNTTCTTAT GCGGATAAAA TTTCTNAGGT AAGAAAAGTT AGCTCTGAGC AGCCCTCCGC CTGATACTAA TACTTTACCA
ATGGAGATTT TCCTTTTCTT TTCTGTTTTT GAGACAGGGT CTCACTTTGT TTCCCAGGCT GGAGTGCAGT GGTGCCATCA
TGGATCACTG CAGCCTCCAT TTCCCTGGCT CAAGCCATCC TCCCACCTCA GCCTCCCGAG TAGCTGGGAC TACAAGGTGT

162

GCACCACCAC GACTGGCTAA TTTTTAATTT TTTNNTAGAG ACGGGGGTTT CCCTATGTTG CCCAGGCTGG CTTGAATTCC
TGGGCTTCAA GTGATCCT

SEQ ID NO:325: (Length of Sequence = 461 Nucleotides)
ACTCCAGACT CCTCCAGCTG TCATGGATCC TGGGCCAGGG GATCCCGNAC TCACCCAAAG TGGGGCTTTG GGCGGTGGTG
GGCCGGTTCA GTGGTGGAGC GTCTTTTTGT CCAGCTCAGA ACCTGCTGCC GGTCCGGTCC CAGAAAAGTT TCTAGCGGGT
GTAGTTGCCA AAATTAGGGT CTGTNACTGC TGGGCTGGCG GTGGGCGCCT CATCCCAGCC TTGGAAATCC TTGCCTAGTA
GCGGGAAGTT CTAAACAGCA AAGGATACAA GGCCCCTTGA GCGCAAGTAA ATTTCCCCTC TTGCAGCAAC AGGTGTCCTC
CAAACCAAGC AGCGTCCACG TGTGTNCGGT GGCTGGAGTT CTGCAGTNGG GTGTGGGGAT TGGGAAGGTG CACAGGCAGC
CGCTTGAGAC CCAGAGGCAG TTNGGGGGAG AGGCCTTGGG CTCAGAGGCC TTTCTTTGTT T

SEQ ID NO:326: (Length of Sequence = 391 Nucleotides)
GGCCCTCCAG TGTCCTGCAG AGAGGCACTC TTGCCAAGTG TCATTGATGA CGCAGCTGAA AACCAGAAAC ATTTCACTTT
CCAGCCACGA GACTGCAGCA ATCTGCTCTT TGGACTGCAC TTAGGGAAAC CGAGGCCCAG ATAACTGACC CCTCAAAAGC
CCCCAGGACG GCAAAATCAA AGGGGCTGAG GTGCTCTGAA CAGCCCCAGC AAATTAAACC ACCTAACTTT GCGCTACTCC
CACTGCCCTG AAGCAGCCTG TGGTGGGAGG TGGGGGTGGA TACAGTGTTA CAAAGAGAAA CCTGAGTTGT AGCCATAGAT
TGCTAATCAG TAACAAAATA TCCCTCTAAA CCCAGTCCTG CCTTGAACCC ACAGGCTCAG GATGGTAAAT A

SEQ ID NO:327: (Length of Sequence = 438 Nucleotides)
TACTGACTGA CCCTGG   GATTCCCAGC CGAGACGTTT CTGCTCCATT CCGGCAGGAG CTACCTTCCC GAGCCGCGCT
TTGCTCACCT GTAGGAG   TAGAGGGAAA TAAGACAGCC CTTCTTAGGA TGGTGGAGTG GCTAGAAAGA AGCAATCCAC
GCCAAAGGCT TAGCTCAGTT CCTAGACTTA GTAAATGCTC AATAAATGTC TGCCATTGTT ATTATTATTT ATNATGCTTC
CAGCTGGCCT GGAAGGAGGG TTCTGGAGCC AGAAGGGACC TTGGAGAGAC CTCGGTTAAA TCTCTAGCGC CATCTTTATT
TTTAGGATGG AGTAACTTGC TCAGGACCTA CATCTAACAT TGTGGAGGGG ATGCGGTTTT TAAGTAGGAA TTCTTNGACT
AGACCTCTCA GCAACCCTTT CCTNTCCGTG ACAGTGGG

SEQ ID NO:328: (Length of Sequence = 400 Nucleotides)
TTGCCCTCTC GGCCTAGAAG TCTCCCATTA TGGTGCTGTG TCTGCTGGGA CCCACGGGGC GCTGCACAGG GAACCATGTG
GCCGTGAACC TCAAGTCCNG NCCAGCAGGG GTCAATTGTC TCAGNCCACC CCTCCCTACC CCCAGTATCC TCTCTCCTTT
ATAGATCATC CATTAAGTGC CAGACACTGC AGAAGGCACA TTGACTAATA TTAAATATTA GCCCAGCTAC CCTGCTGGGC
TGTCCTTCTT AGAAATGAGG AAGTGGAGGG TTAAGTGGAT TTCTCAAGGT CGTGCAGCTG GTAAATGGCA GAACCAGGAT
TTGAACTCAG GTGTGCATGA CTTCAAAGGA AGACACCACT GAGGCCTCCT CTANTGGGTC TGCNTCCCTA CCGGCCCTGG

SEQ ID NO:329: (Length of Sequence = 227 Nucleotides)
GGCTGGGCTA AACTCCAGAC GCTGGCCACC TTCATAGGGT GGAGATGACA GAACAGGACA GGAGCCATGG GGCTCCCGGG
GCGGGTAGGG GTGGGTCATG TTCCTTGGCT TGGGGGCAGT TACAAGGGTA CAGTGGGGCT TGTTGAAGGG CAAAAGTTCT
GTAAGTNCGT CCCNACAGGC CAAAGAAACC CCAGAGCCGT CTTTCGACTG ACTACAGCCT GGAAGAG

SEQ ID NO:330: (Length of Sequence = 401 Nucleotides)
TGAAAATATA TCCACTGTTC AGAGGGACAA CAAAGGCAGT TAGACTGTCC TGAACGGTCC TGCCTCAGGC TGAAATTTTT
GTAGCACTTG ATCAGTTGCA AAGTGATCTT CCCTTTAATA TCTCATTTTA TCATTGGGTA TCTGAAGAGG AAGTGGAATT
GGGGTAAGAA TTTAGGTTCT TGCCATAGCA TTTGGCTGGC CAGGGTTAGC CTCACGGTGG AGGACCCTTA AAGAAAACTC

163

TAAGGATTTT AAGGAGAGTC AAACTCTACA TTCATCCAGG CAAACATCTA CTCTTCCATT GATTAATGGN TCCACTCATC
CGTGCAACAC ATTCACTCTT TCATCCATCC ATTCATCCAT CTATCCTNCA TCAATCCATC CATGTATCTT TCATTCATCC
A

SEQ ID NO:331:   (Length of Sequence = 322 Nucleotides)
CCCAACGTTG CCCCGCCTTT GTCTCCAGCG GACTGGAAAG AAACCCACCAT TGTGAAGCAC AGAAAATTGC CCGCACTCTT
ATTGGCTAGG TTCCCCGACT TCCGCTCTCG GTTGGTGGTT GGCTTTGCCT GTTACCTGTG TTGCCCACTA CCACTCGCTC
CGCCGAGCCC CAAGGATGGA TCGCTATCCC GTAGCCGGGT GTTCCGGAGC GCTGCGGGCA AAGCAGACCG CCTTGCGCCT
ATTATGGGTT GAGTGGCTCT GTACTCTAGA TCGGCTCTGT CACTTACTAA TGGGCCGTGT TGCCTTCGCG ACTGCAGGTT
TT

SEQ ID NO:332:   (Length of Sequence = 441 Nucleotides)
GGCTCAAGNA ACCTGCACTC TTGCACTCTG GCCTTCTCCC AGGCTGAGCT TTATCATATC ATCAGCAGCA ACCTGGAGAA
AATTGTCAAC CCAAAGGGTG AAGAAAAGCC ATCTATGTAC TGAACCCGGG ACTAGAAGGA AAATAAATGA TCTATATGTT
GTGTGGATTC CCTTCTGGCG TGTGTCATTC ATTCAAAAAG CATTTATTGA GTGGCACCTA TGTCCAGCCT GAAGATGAAT
GTGGTGGGAA GGGGTGGGTG TCACAAAGAC AAAGATGACT TAGATGCCCA CTGTAATCTT GACTGTGAGA AAGAGGGGAT
TCAGGCCCTT TCTCATCCAG TAGTCAATGT GCCATCTCCC CTTCCCTAGT CACCTCTTAT CTTCACTTAC CTTCTTTCTT
CTCCTGCTTA TCTGTTTTCC ATCTAAGGCA AAAAGGGGGG G

SEQ ID NO:333:   (Length of Sequence = 354 Nucleotides)
AGAAGCGTAG ACCGAGTAGC TTGAGCGCCT CTTCCGGTTA CCTTTTCCCA GCGCCAGAGG GCCTTAGGGT TGGGGTCCTC
GCTCAGGCAC AGAGNCCCGA CACCGAGCGG CGGCTTCCCC GGGATCGAGG GACGCGCACG CCAGAGGAGA CGAAAGGAAC
CCGGGTCGGA CCAGATCGGA ACCACTGACC ATTGCCCATG GCGGCCCTAG TGAGTNTGGA TTTNGCGGGG TTCGGGGGTT
CCGACGGCGA CCTCGGCGAC CCCTCACTCA CCGCTTCCTC TTTNCNCAGG GNCCTAGNAG CCAGAATGTC ACTGAATACG
TNGTTCGAGT TCCTAAGTAA GTCCCCAGGC CCAT

SEQ ID NO:334:   (Length of Sequence = 196 Nucleotides)
CTCCCGCTCC GCACCCGCCT TTCCCGAGCA GGCTACACCT CTCCCTGGCG CATCTTTACT GGAAAGCCGG CAGNGGNGNG
GGAGAAGTGA GCNCCGTCTC CGCGCCTCCT CGGTCCTGCT GGCTGAGCGC GGGGATGGCT CCGGAGGGAG ACACTCAGGA
AACCACCTCC GCCCTTCCCC CATCTTTATC CAGCGG

SEQ ID NO:335:   (Length of Sequence = 261 Nucleotides)
TCCGAGAGCT GTCTGGGGCC AACGTGCTGG CTGAGTACTA CTGGCTCANA CGCCGCCTGC TGGGGGCCCC TGGNAATNTA
AGTCCTGCCC CGGGCTGTGC CGCCCTCCTC CCTGANAGCC CCCTGCNTCC TGGGCACAGG GAAGCCTCCA TAGGCTAGTA
GCATCACAGT GCCAGGCCCA GAGCTTACTG GACTTCCCAA GGTCCTATGG GACTAGGGCT GAGGGTACAC ATCCTGCTTT
TTTCCAGAAT ATAAGTTTTG G

SEQ ID NO:336:   (Length of Sequence = 191 Nucleotides)
CGGAAAAGCG CTTCGGCCAC ATCCAGCAGC AGTAGCAGCC GCAAGGNCCG GGACTCGAAG GCCCACCGNA GNCGGACTAA
GTCGTCCAAG GAGCCGCCTT CGGCCTACAA GGAACCGNCC ANCGCCTACC GGGAGGACAA GACCGAGCCT AAGGCCTACA
GGCGGCGGCG GTCCNTCAGC CCACTGGGAG G

SEQ ID NO:337: (Length of Sequence = 279 Nucleotides)
CCTTAGGGCT CCTCCTGACT CCTTCCAACT CCCAAGTCTG CAGCCCAGGT AAAGCCAGAG CAGACTNAAG GCAAGTTTTC
AGGAAACCAG GNGGCTTGAT CCAGACTCAC AATCTCCCTG CAAAAGTKTT CAGAACACAC CGCACAAACA CACACACGNC
TCACAAAACT TCTGAATGTK GCTCTGTCTC CACCTTCTCC AGTCACCGAA AGACCTCGGC CTGAATTGGA GCCCGCAGCC
GTAGCTGTCC CINTCCACCT GTNGCCCTCG CGGAGGCTT

SEQ ID NO:338: (Length of Sequence = 339 Nucleotides)
CCACNCGTGG AGGGAGGCAA AGGGGCAGCA AGAGAGAGGG AGGAAGCCCC ACTCTTTTAA AACAACCAGA TCTCTTGTRA
ACTGAGAACT CCCTTATCAC CAAGGGGACG GTGCTAGACC ATTCATGAGG GWTCCGCCTC CATGGGCCAA TCCCCTCCCA
CCAGGCCCAC CTCCAACACT GGAAATAACC TCCCAGCAGG CCCGCCTCCA GCACTGGAAA TAATGCTTCA GCGTGAGACT
GGAAGGGGAC TGATGGAGCC TGGWTGTTTK TCCCCGCCCA GSTCTMACGC TGAACCGTAA TCCCCAATGC TGGAGGCGGG
GCCTGGTGGG AGGTGACTG

SEQ ID NO:339: (Length of Sequence = 334 Nucleotides)
GGCACCGGGC TGTCTCTNGT CCAGCTAGCC TCACAGGGAG TGGCCTCTAA AACNGGCCGG CCCACNCCAT TTGGAAGCTG
TCCCGGGTTT TCCGTGAAGT CCTCCCGGCC TGTGGTCTCC TGGATGGTCT GGACCAACAG CTTGGGGATG AGGGGAGGCT
CGGGGGCAAG GGCAGGAGCC CCAGCCAGGC GCTGGGGGTN TGGCTGATCG AAGAGCTGCA CCACCCNGTA GCTGGCCAGG
TGAGTATNGG CGTCCACCAG GTGCAGACAC ACATTCTTTT CCTTNACAGC CTCCTTACCC TGGAGTTTAT AGCCAAACGT
GAGGTCGATC CAAT

SEQ ID NO:340: (Length of Sequence = 450 Nucleotides)
GGCCCCACAA TCCCCTTCTG GCTCCGGGGA CGGGCGGGGC GGGGCGAGCG GGCGGAAATA ATTTTNTGTT TGGTCGTCTC
TGCCCCAGTC CCTTCGCCGC GGGACGGCGA GACGGGAGAA GGTGCGGGAA GCGGGAAGCA GGAGCGGGAG CGCGCGGCCC
TGGCACGCAT AGGGCGGCGG AGAGGGCACG AGCAGGGATT GAGCACCTAC TGTNTGCCTT CACGCTTTAC AAAAGGATTT
TCGTTCGATG TTCACTACAG CCCCTGCCCG GGGGTACTGA TGCCCCATTT ACAGAGGGAC AAGCCGGATT TCGGAGAGGT
GAAGTCACTC GCCGAAAGTC GCACCGCCAG GGTCTGCGTG ACACCCTAAA GCAGTGTTCA GTTACCCCGG GGAGAGCGCG
ATGAACTTGA ACCACTTGTT GGCTTGGTTC CTGCTCTTGC TCGTTTTTTT

SEQ ID NO:341: (Length of Sequence = 192 Nucleotides)
TTCAAACCCT GGCGGCACGG CTTGTCCCTC GAGGCCCGGC CCCTTCCCCT TCCGGAGAGC CCACCGCTGG GTCCTAAAGC
CCACCGCTGG GTCCTAAAGC CCGCCGGGTN TTTACCCAGG ACGGGGCTGG GGAAACCNGG TCTTTCCTAG CTCTTGGNTT
ACTTCCTGGA GACTTCTTAA AACGAGAGGA GA

SEQ ID NO:342: (Length of Sequence = 229 Nucleotides)
GTGGTAACTT TTTTAAAAAA CATAAATACC ATACAATTCA TCCTTTTAAA GTGTGTAATT CAGTGGTTTT TGGTATATTC
AGTGTTGCAC AGTCATCACC ACTAATTCCA GAATATTTTC ATCACNCCCA CGGCTGTATC TCCCATTTCT CTCTTCCCKG
CAGATCCTGG CAACCGCTGA TCTACTTTCT GTCTCTTACA GACTTATCTG TTCTGGACAT TTCACATAA

SEQ ID NO:343: (Length of Sequence = 229 Nucleotides)

165

TGCTCCAGGA AATTGGAGTT CNAGCTGAAG GCCTTGCNGC ACTCCGNGCA CTCGTAGGGC TTCTNGCCCG TNTGCGTGCG
TCGGTGCTGC ACCAGCGTGG TGCTTCGNCC GAAGACTTGC CGCAGTCCGG GCAGCGGAAG GGCTTCAGGC CGCTGTGTGT
CTCCTGGTGG TGGATGAGCT GCGAGTNCGC GCGGAAGGCC TTNCCGCACT NCCTGCAAGC GTAGGGCTT

SEO ID NO:344: (Length of Sequence = 227 Nucleotides)
TCCGCAGATC ANATTCACCC TTGCCAGAGG TCAGGSCCCC CGGCCTTGGC GGCGGGCCAG AAGCGTGACT TGGCCTSCTG
GAATGCATGC CCCTAAACAT CTCTAGACTA GGGGCAGTKT CCGCCAACCA TGGAGGCCCT CCATCACCAT CCCTGCAGCA
TCACCACCNT CCAACCCCCA TGTCCCACCC TGGNGNTTCC ATACCTGTAG TAAGAGAGCA AACCATT

SEO ID NO:345: (Length of Sequence = 249 Nucleotides)
GGGCAATGTT GTCACAGATG TGTGCAGATT TTSCAGAGGA CATAAGTTGG CTGTGAGGWA GAACACAGAG GTTSCCTATT
TTTTAGGCAG GAAAGAAAGC CTGCACTTTT CTGTGTGTGT GTNTCAATAA ATCTGAATAA CACCTTGAAA GGGTTAAAAA
GCTGAGCACC AGGTGTTTTC TTTCCACTTT CCAGAGTAAT TTAAGCACAC NSCAAAGTTA TCTCCCTTCC TTCCCCACGA
GCCAGCTTA

SEO ID NO:346: (Length of Sequence = 356 Nucleotides)
ACCTAGTCCC GCAGCCGCTG CAGCCGCTGG GTTGGCGGAA GAGCTGGACG CCGAGCTAGA GGACGAGGCA GAGCTGGACA
CAGTGGCGGC GTGAATTGGC CACTNCTTTC GGAGCCCGAN CTCTCCCGCA CTGGAGAGGA CTTCTTCTTG GCTGGGCGGC
TCTTGGTTCC GCTCCCGCTC TGCTGCTGCT GGCGGCATTT NGCGCGGCGG TTCTTGAACC AGACCTGCAG TGGGCCGGAT
GGGGGAGAGT GGGTCAAAGG GAGCTAGGGG AGCTTNTTGC TCCACCGNCC CGTGGACCCA ACTCCCGGTC CAGAATATCG
CAATCCTTTC TCACCGAGGC CTTCGACCCT TCCTGT

SEO ID NO:347: (Length of Sequence = 155 Nucleotides)
GCCGCGGTGC GTCGGATGCC CAGCTCGCGT CCAGACCCGC GGGATGCAGA CCCGGTTCAG TCAGGCTTGA GGGCTGCTCC
GCATAGACCA ACGTCCGGGG AAGGCACACA GTGGCCGAGG GCCCGCGCGC TTKGGCTACG GCTGTRATGG TATCT

SEO ID NO:348: (Length of Sequence = 362 Nucleotides)
AATTCCGATT TAACTGATTG TCTCATTCTG CTCATACATT TCAAGTTTAA ATGCAAGCAT AAAAATGTTTA TCAACAAATC
TAGAGAGCAC TTGGATTTTN AATTTTCCTG TGATCACAGT AAGGAGCATA AAAAAGAGTA TCTNCTGTTA CACAAGGCCT
GTNCTCTCTT TACATCTTCA GACTTAAATT CTGTAGAAGG TAACAGCTTT GTATTAAGGA CAGAAGCTTA GTGGTCACAA
ACAAAAAATA ACACTGAAAT ACAATTCGGG NATTANTGAT ACTGTGTGTC TCAAAGGATA CCTGAACTAT TACANTNACT
AATAATTGG GCAATGAGAT TCCCNGGTGN TTCAACTTTT TG

SEO ID NO:349: (Length of Sequence = 342 Nucleotides)
AATTCCTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTCAAGTAT CACAATGTTT ATTGATAGAT ACAAGTATAT
AAAATCAGGG CATGANCATG ACTTGATAAA TTAAGTAGAC TTAATTTCAA TACTATAATA GGNGGGACCA ATTCAAATTC
TCACCATTTG TTTCACACCC ACAAAAAACCA CTTCAAGGGC ATTAACGNTC TCTCAAAACT GNTCAGTTTT GTGCAAGTAA
ACCATGTTTC TTTTAAAAAG ACTTGTGCAC TTGCCCAGGC TCAAGGTTAT TAAAATCTAG GCACATAAAG NCCATTACTA
GAGGTAGGRA ATACAGGCAA TT

SEQ ID NO:350: (Length of Sequence = 384 Nucleotides)
GATCTGTGCT AGCTGTGAGG CAGCTCTGGA ACGTGAAGAG CTGTTTGGTT TGANCCGTGA ACAAAACTGT GTTTTGAGTT
TAGCTGACAT TAAAGAAAAA AGTTCATCAC GTGACTGTTA ATGTAAACCT GGTTATTAAA ATAACTATTT AAAACAGGAG
AAATCTGGTA AGTTGTTAGG NTTCTAAATT CCTTTTAGTC TGTTCACTGA GATATTAAAT TTCAGTAGAC AGAACCCAAA
AAGAGATTTC ATTTCTTTCT AATCACTTTG GCTTCTNTCT NTTTTNTTAA GTAGGTAAAA ACCTTCCTTG GTGGGCACCT
AAGCAGGATG CAGCCAATTA GTTCATGAAC CCAGCTGCGG ACGTGAAGGC TTAAAATCTA AGGA

SEQ ID NO:351: (Length of Sequence = 305 Nucleotides)
ATCCTGACCC TCCCCACTGC AAGCCCAGGG AGCCCCAGCC CAAGATGGCC AGCCTGAAAC TGTTGGCCAG GGCTCCTCTT
GTGGCCATGT ACCCAGGGCT GGCTGGCCTG CCATTGCCT CTCCCCGGAG ACAGCCGTTC TTCTGCAACC ACACCCCGTG
CCTAGCCACA ACCCCAGGCT GCAGCTGCTC AGAAGCTCCA GGCATTTTGT TTCTGGTGAC CGCCCCTAAT GGGATATCGG
TGATCACTGG TCCACCCTTC CTGTCAGGGC TTTTCTGGGG GCTGCTCTTG GAAATGAAGT CTTAA

SEQ ID NO:352: (Length of Sequence = 270 Nucleotides)
GAAATTACCC ATGGTCATAT CTAGCCTACA AAGAAGAGAA AATACAGTGA TTCAAGTTTC ATTGTATTCC TCTCATTGAT
ATATTTATCA ACCTTCCAAT TGAAGGAAGT GTCTTCTAGG CCTTTACAAA GAATGTAACC AGGGTTTAGG TATACAAGTT
GCATATGATA AATCTGTCAT GTTTCTATAT AAATCTGTCC ATATTCCTCT TCTGAAATGC ATTATTTTTG GGGAAATTA
AAATGTGATG CAAAGATCCT TATACTTTGT

SEQ ID NO:353: (Length of Sequence = 195 Nucleotides)
GTGTGATTCC ATTTATATGA AATGNCCAGA ACAGGGAAAA CCTATTNAG ACAACAGAGA CACAAAGTCG ATCAGCAGTT
GCCAGGGGAG GAGGAAGACG GGAGGGGAAA TNATTGCTTC ACGGGGTGAT GACAGAATGT NCCAGAACGT GACAGAGGTG
GTGCCTACAC AACTTTNTGG NTGTACTAAA TGCCG

SEQ ID NO:354: (Length of Sequence = 388 Nucleotides)
GCCAATTTTT TTATTTTTGT AGAGATGGAG TCTCCCAATG TTGCCCAGGC TGGTCTTAAA CTCCTAGGCT CAAGGGATCC
TCCCAGCTGG GCCTCCCAAA GTGCTGGGAT GATAGGCATG AACCACCATT CCCAGCCCAT TTCCTTTTTC CCTTTGCACA
GTACCAGATA TATGGTTGGT ACTGCAGAAA TAATTTCCCC CTGCCCTCTA CATTGATCAT TTGATGACCA AAATAGTGTCC
GTCTAGCCAC TTATTTATGA TTTGTACAAA ACATTCCGCT TTCTGAGGTA GACAGTGATA TTCTGAAGCC ATCAGTAAGA
GTAATTTTTC AGTNTTGTTG AAAGTGGNCA TTCTTTGTGT AAAGGTCAGC CTGTCAAGGA AATAGCAT

SEQ ID NO:355: (Length of Sequence = 288 Nucleotides)
TAAAGTGAAG TATTGGGAAA GGGAACATCT CACTCTGATA GATTTGAATT TNCTATTTCT GCTCTGTGAC AAAACCCTGA
GTTGATATGT GATCAGACAT TTACAAGGCC CTGCATTCTA CCTGGNAATG GCTATAGTGG TGTTGAGCTG CTGTGAGATG
ATTTACTGCA ATTTGTCACT TTTTGAAACT GTTCCAAAAT AGTCTGCTGA CAGCCCTTCC CCTCATGAAA ACATCTCTCC
TTTTCCAGTT AAAAAAACAG TCAAAAAACA CCAAAAAAGG CCACCTCC

SEQ ID NO:356: (Length of Sequence = 401 Nucleotides)

167

GGAAATTAGG TTGGTTATTA ACATGTATAG ATGGAACTGG GGTGAAAAAA AAAAGGAAAT GGGAATGGAG TGGAAGGGTT
GGGTGGGAGA GACACTTCAC AGTATTCTTT TTGTTTTGAC TTTGGAAATG TTACTATTTC ATAAACTTAA AAAAATGCAA
AAAAAAAATA TCAAAACTAG GTAGGAAGGA GAACAAAATG AAATATAACC AGAAAGGAAT AANCCTAACA CATTTTGAGT
GAATCACAAA GCCAAACCAA AAAAGAGCTA ATTTAAGTCA CTTTTAAACT TGGTGTTTAA CTACCTACAC TCAGTCTAAA
AACGGNAAAT AAGGGTAAAG AAATAGTGGA ACTCTAGTTA GTTGGGTCTT TTCTTTACAG CAGTATGGGG ATGGCAACCT
G

SEQ ID NO:357: (Length of Sequence = 275 Nucleotides)
CAGACAGTGG ATAATAAACA CCTCATTAGG AAACCGATCT CAGAATGANC TCTGGAGTAT GAAAAAGATC ATTTCTTTTT
GTNCCTGTAA CCTAGCATTC CTTCTAGGCT TCTNCTCCTT TAATTGAACC ACAGCTTAGC TCATGTATTC TTTTATTAAC
ACCCTGCTCT CATGTCCATA AGATTCAGGA ATTTAGGAAA TNAGGCTGGT TTGAAGAGGG TAGAAAGCAA TAAAGGCAGN
AAAAAATAAG NCTAAAATCA GGGGAAGATG TATTT

SEQ ID NO:358: (Length of Sequence = 314 Nucleotides)
GTGAAGGAAG TATGAAAACT GAGACTAATA TTATGAAGTC TTTTTTTAAT TCTTTATCTT ATTGCCCATT TTTAACCCCT
TGGTGTTTGA AATGGAAAAT AAATATNCTC TTCGCGATAG ATAATATGTC AATAACCAAA AGGTGGCCTT AACCAATAAT
TGGCCCAACT TTAAATTATT ACCCTAAAGA TATATAAATT ANCTAATCTA AAATTAAATG CAATTTTGCT ATGACTTAAA
GTGTCANTAA TCCTGTATAA GNGATCCNNT TTATGCAGTC ACTTAGGCAT GAAGTTGGCA ATTCATCTAA ACTT

SEQ ID NO:359: (Length of Sequence = 372 Nucleotides)
CAAGAGAGAC ATAGCAGGCA TTGAAACAAT GGAAATGCCC ACATAGCAGA AGGGAGTGAG GGGATCCAAA CTACAAGAGC
GACAAAATCA ACTGTGGATC CAGAGACGAA AAAATGTTCT GTAGTGCAAA GGTAATCTGG TGAGATGAAA AAAAAAGAAC
CATTTTTAGA AAAANGGAAT ATTAGAAATA TTGAAGTAAA TATCATAAGT CATTCTATTA CAAAGGCATT AACTCCTTCC
TATCAATAGA ATGTACCAGT TTAAAANTTT TTAGTAGGAA TATATCTTTT ATTTTATTAA CAGAAATCAN GGGACAAAGA
GGATTTGATC CATCCATACT TCCTACTCTT ATTGGGTTTG TCAAAATGTA GG

SEQ ID NO:360: (Length of Sequence = 395 Nucleotides)
GCATTCTTTT GATACCCACC TAATAAAGAC AATCTCTAAA ACCAAATAAT AGGCTATGAA ATGTATTGTG AGTNCTTATT
TCATTCAAGA CAGAGCTTAC CTTTAAGTCT CCAGCTGAGA CAGTTGGTTT TATCTTTCTG AAAGCAGTTT GGTCAAGTGT
TTCAAGTAAA TCAAAGATC GGTTAATCAA TTCCTTAGCG AATTGGATTA GACACTCTCA TTTCAAATGG CAGTTTTATG
CTTACTCATT GTCTTGAATA ANCTTAAATA CTTTATGCTA TCTTCCTGCT CCATTATTTA TGTAATCACT GGGNCCTTAG
TATTCTGCTT TAGNNCATAT AAAATCACTT NCAGGTATTT TCCATCACGG ACACAGAGGC AGGCACAAAT TAACC

SEQ ID NO:361: (Length of Sequence = 298 Nucleotides)
ATTTTTTTGT GGGAGAACA TTTAAGACCA TTTCAATGTC ATGATGAAAG CTAATGGGAG AAGGCTTTTN TNCTACAAAA
ATTTNCTTTA TTTTTNCAAC TTTATTGAGG TTATAATTGA TATTAAAAAA CTGTACAGAT TTAATGTGTA CAGTCTAATG
AGTTGGGACA TATGCTTACA CCCNTGATGC TGTTACCACA GGCAAGGTAA TACACATATC CGTCACCTGC AAGAGTTTCT
GTGTTTCCCN NTGTTTCTCA TTTTGNTTTT TTCAAAAATT TACTTTATAG CCTTATAG

SEQ ID NO:362: (Length of Sequence = 437 Nucleotides)

168

ATGCTGGAAG TGATTTCTGC AGCTCAGGAT TTTTTTTTTA AGCTACATTG AAAATATAGG TTTATTTTTT GTNCAGGTTT
TNCTTTTATA TTTTTTTNCT GCACAAAGGA GGAGGATTTT CCACTTACTC ATATCGAGGC CAGATTTTTA AAGCCAGCTA
AGGCAGCATC AGCTGTGCGG GATTTAAAGC CTATAGCTCA GCTGAAAAAA AAGGTGGGGT GGCGTTTCAT GTAATGGGAC
ACGATGCCCT TCTTGCTGAA CGACTGGAAA GAGCACAAGG AGCACTTTTC CTTCTCCACT GCCCGCCGGA GTTCCTCGCT
CAGCTGAGGG GAGTCGTCCT TGGGCGGGGA TGGGATGATC ACTTTGTTGG GCTTNTCGCT GATGGTCCTG GAGGCTGCCA
AGAAGTTGAG GTGTAATACG CATCAATGTC CGTGGCG

SEQ ID NO:363:   (Length of Sequence = 449 Nucleotides)
TGATTTGAAG TAAGCTTTCC ATGCTTCACT TAGGGTGGGA AATTTTAAAT ATCAGAGCTT TCTTTGTTAG CAGCATATAG
TTATGCAATT TATTTAAATC TGCAGTGCCA ATCTTTTTTT GATGGGTGTG CTTAGACCAC ACATTTAAGA TAATTATTAA
TATGTTAGAA CCGAATATAT TTTNATGATT AGTTTTTATG TGTCAATTTG ACTGAATTAA GAGATGCCCA GACAGGTGGT
TAAAACATTA TTNCTGGGTA TGTTTGTGAG GATGTTTCCA GAAAAGGCTA GCATTTGANT CAGCAGACTG AGTAAAGAAG
ATAAAGATAA TACTTGTCAT GTGTACAGGC ATCATCCAAT CTGCTCAGGA CCCCAATAGA ACAAAAAGGT GGAGGGAGAG
TGAATTATGT CTACCCCCTT GAGCTTGGGA CAGCCATCTT TTCATGCCC

SEQ ID NO:364:   (Length of Sequence = 282 Nucleotides)
GACTGTGTAA ATACACTTTA TTTTCCATTT TNCCCGCCTG GGCGACATGT GAACAGGCAG TGTGCAAAAT GGTGGCGGGC
AGTGTAGGGG GCGTGTGGAG AGCCCCGTGG GTGNCTGCCC CGGTCCCCAG GCTTCGTAAC ACTGAAAAGT GGGCAGCTAG
GAAGCGGGGA CGGAGCAGGG GTCCCCACCC AGGAAGCGCC AGGNAGATTN CTTGTAACGC TACTCTACTG GAGGCTCCGG
GAGCACCGAG NGGGGCAGTC CCCAGGGTCA TGAGGCCCGG GG

SEQ ID NO:365:   (Length of Sequence = 349 Nucleotides)
TTCAAGCATT TCTCCTGCCT CAGCCTCCCA AGTAGCTGGG ATTTCAGCAC CTGCCACCAC GCCCAGCTGA TTTTTGTATT
TTNAGTCAAG ATGAGATTTT TGCCATGTTG GCCGGGCTGG TCTTGAACTC CTGACCTCAA ATGATCCGCC TGCCTCAGCC
TCCTAAAGTG CTGGGATTAT AGGCATGAGC CACCACANCT GGNCTTTTTN TTCTGTTTCT AACTGTTCCC TTTTTATTTCC
CTATGGAGCA TCTACTGAGC CCCAGCCGAG AGTAGAAACA AACCTGCTGG CTGCTCTNAA GGCACTTATA GTCCCAGTTA
GGGGNNGACG GGTCACTTAA CCACTTAGT

SEQ ID NO:366:   (Length of Sequence = 366 Nucleotides)
ATGCAAAGGA ACAATGGTGT TGGCAAAGTC TTCTTTGAAT ATCAGAGACT GAGTCAATAA AAAAAATAGT AGAAAGGTGG
CTTTTACTAT TGACAAAAGC CGGGGTCAAA AAAAGTAGTT TAAGTCTTAA GNCTGAATAT GCATTAAAGT ATGCAGGTAG
CAAAGATGTA ATAAATTTCC TTAAAAAAAG AAATTAAAGT TTTATTTAGA ATCAATTTTA CCNGTCATTG TAATTGACCC
NTCTGAGNAT TACAATAAGC AAGAGGAAAT TAAGGTGTTT TGCAAGAGCT GTATTTATAT TACNGNTTTT TAAAAACCAT
TTTCTGAATT ATCGTAATTA AAGCTCTCCC AACTCGTTTA AGTCAG

SEQ ID NO:367:   (Length of Sequence = 391 Nucleotides)
GCAAAAACAA ACAAACAAAC CTTTAAGTAC AGTAGTTCCA AAACACACTG CTAAAGTTAT GAAATAATTG TGGATCATTT
CAAGTAAAAA TTATTAAAGG AGCAATAATT AACCACAAGG GGGCATATAT ATATATNCNC CTTAGATTCC AGCAGAAAGA
CTAGTTTTAA GTAGTAACAT GCACGTTGAA GTATTCTACA TTTTCAGTCA CTTAAACTTT CCTCTCTCAG ATGGCTACAA
CTTTTTAATA TTCGAGGTNT ATTTTATATC TAAGTAAAAG GATTCCAGAA TACTCCTGCC CTGCAAAACA GTAGTGTTTT

AGAAGNCTCT NGGAAGTGTT GCTGTTTACC CTTTAGCAAA GNGNTACAAG AGCTATTAGT TGTAATAATA C

SEQ ID NO:368: (Length of Sequence = 370 Nucleotides)
ATTTCCCTTC TGCACTCGGT TCTCCTGCTC CCCATTTACA TGGTTTACTT CATTTTCCTC TTCATCCATT GGATTCACAT
GTGTTCTAGG CCAATATTCC AGGNGTGCTT GGAGTAAAAG TCCTCCTAAA TTCAATTTTG GNTCTGACCC ATCAGGGCTG
CTGAAACCAG CATCTTTTGC AGAAACCCAG GCAGCAAAAC AATCACTTTC ATCCAAAGTA ATAGTTAACA TCCCTGTTTT
TAAGTCTACT GAGAACCAAT TTGGCACATA CACCATTTTA AATCTTTNCT TAATTTCATC TTCAAAATCC ACTTTGCCCA
GATCTTCAAC TTTACATGGC TTCAATACAT CCCAATATGN CACATTATTA

SEQ ID NO:369: (Length of Sequence = 315 Nucleotides)
GACAGGTATT CTTTAGAAGT TTTTTGTTTA CTTATGTTTT NCTCTTTTAC ATCTCCTTGT GAATTTCTGT CCCATTTTGA
AGTCTCTCCT TGTTCTCGAC CAAGATCCCC TTGATGTTCT GTAGCCAAAG ACTGAGAAAA AGAGTTATTC TGAATGATGT
AGAGGTTGAT AAGTCTGGTA AGAAACTGTT GGACATACTC CAAGCAGCAC TGCATTGCAG TCTTTTGGGC TGTCTTCCTA
CTTCGGGTTG CTGTCCCCTG AGTGACTACG GAAGGGGTCT GGATGATGGT TTCTTCAGAT CCCACAGTGG ATGCT

SEQ ID NO:370: (Length of Sequence = 442 Nucleotides)
AACACTTTTA CACTGCTGGC CTAATTTGTA GATATCCTCA AGAAGATTAT GAGTCATTCT CACTACCGGA ATCTGTTCCT
CTATTTTNTT TACCAATGGG TGCACCATTG AATGTTGGCA ATCAAATAGC AAATACCCTC TGCCTGTATT TCCTACTNTN
GTTTTAACTG GAGCCTCAGC TGAAAAGGTT TATGGTGCTG CTATTCAGTT TTATGAACCA TACTCTGAGG AGAATCTCAC
AGAAAAGCAG AGACTTCTTT TGGGTTTAAC ATCAGCAGAT GGGAAGTCTG ATAGTTCCAA AACAATTCAT ACTAACAAAT
GCATCTGTCT TCTTTCTCAC TGGGCNTTTT TTTGATGGCA TTCAGGAAGT TTCTGACTTT TNCTGTATCG TTAATTCCAT
CTCTGGGGCT CATGTCCTTC CAATTGAGGA GGATAATTCC CA

SEQ ID NO:371: (Length of Sequence = 441 Nucleotides)
GACAAAGTCA CTCAGGGTCT ATTTCACCAT ACCCCAAAGT AAAGGCCCAA ACTCCACCGG GGCCAAGTNT TTCTGGNTCA
AAGTCACCAT GTCCCCAAGA GAAGTCTAAA GACTCACTAG TTCAAAGTTG CCCTGGNTCC CTCTCTCTCT GTGCAGGAGT
AAAATCTAGC ACACCACCAG GCGAGAGCTA TTTTGGTGTC TCATCTCTGC AACTGAAAGG ACAATCTCAA ACTTCACCAG
ACCACAGATC TGATACTTCA AGTCCAGAAG TGAGACAGAG TCATTCAGAA TCACCATCTC TGCAGAGCAA ATCTCAAACA
TCACCTAAGG GAGGTCGGTC CAGGTCTTCA TCTCCAGTCA CTTAGCTTGG CATCCAGATC TCCANTAAGG NCAAGATAGA
GGTGAGTTCT CAGCGAGTCC TATGTTGAAA TCTTGGAATT T

SEQ ID NO:372: (Length of Sequence = 362 Nucleotides)
GAGGTATTGT TGTTACTGGG AGGTTGAAGG GAACACAAAT TCAGTTATAA GTCCTTTTTG AATACTAAGA GGGGAATAAT
TAGGGAAGCT AAGAGGGGAA TAATTAGGAG AAGAAAAAAA AACTTCAAAC AATTTTCCCT GTAACATGAT TTTACTTGCA
TTTATAAACT GATTTTTTTT TCTAAGCACT CCTTTGATAA TGATTAAGTG TGGGGTTACA TTATTTNAGG GTCGTCTAAT
ATTTAAGGTG ACTTAAAAAC CTCACACACG TTAATCCCGA ACTGTGAAAA TTTCTCATCT TATCATCCCT CTGTTACTAT
CAATTTTCCT CACGGTACAG ATTCTTTTAT AATTACTTCA TT

SEQ ID NO:373: (Length of Sequence = 306 Nucleotides)
ATTCTTTGTG CGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTTTTGC TGTGGAGTTG AGTTTCTTTG TAAATTCTGG
ATATTAGTTT CTTGTTAGAT GAATAGTTTG TGAATATGTT CTCCCATTCA ACAGGTTGCC TCTTCATTCT GTTGATTGTT
TCCNTTGATC TGCAAAAACT TTTNACTTTA ATATAGTTCT ATTTGTTTAA TTCTGTTTTT CTTACCCANG CTTCTGANAT

CTTAGCCATA AAATGTTTGC CTAGAACAAT GCCCTGGAGT GTTTCCCCTG AGTTTTCTTC TGGTAG

SEQ ID NO:374: (Length of Sequence = 278 Nucleotides)
GGGTTTTGGT TGAGGTTTCT ACCTCATTAT CCAAGATATT TNCTTTCCAG CCAGCAGAAA GAAAAAGGAG AAGAGCTGCC
ACCCTTTGTA TCCAGGATGA TCTCTTNTTG AAATCCTTGA TTTAATTATA TCTGCATGAC CCTTTNCCCA ACTAAGGTTA
TATCCACAGT TACCGGGGGT TAGCACTGGG ACATCCCTTA TTTTANGAAC ATGTCTCAGA AAGTTGCACA AAAAACTTCT
ACTACATCCC ATTGGCCAAT ACTTCTTACA TGATGACA

SEQ ID NO:375: (Length of Sequence = 321 Nucleotides)
GGTGACAGTA TTTTTTGTGG TTTCTGTAGC TCCAGCCCCT CAGAAGGGAC GCCTACAGTT GGCAGCTATG GCTGTACCCC
TCAGTCATTG CCCAAGTTCC AGCATCCTTC CCATGAACTG CTCAAGGAAA ATGGCTTCAC ACAACACGTC TACCATAAGT
ATCGTAGGCG CTGCCTTAAT GGTAAGAAGT GTGGGGGGCA GGAGATGAGC CTCTGGGCCC GTTATTTAGA CCCAGAGTAT
AAGAGTTGGG GGATACGGGG ATAGGTGACT CTTTTCTCTG ACTTCAGAGC AAAAAAAAGA CATGACATTA TAGCAAGAAA
G

SEQ ID NO:376: (Length of Sequence = 337 Nucleotides)
GGAAAATTTA CAGCATGACT ACATATGTTA GGAAAAAAAT ATCTAAAATC AATTAACTAA GCTTCCATCT TAGGAAACTA
AAAAAAGAAG AGCAAATTAA ATCCAAAGTA AGAAGAAGAA AATAAATAAT AAAAAATTAGA GCAGAGAGAA ATGAAATTAT
GAACAGGAAA TCAATTTTAA AAATAAATGA AACCAAAAGC TGGTTCTTTG AATCAATTAA TAAAATTGAT AAGCCTCTAG
CCAGACTAAG AAAAAAGAGG TAGGGCACAA ATTACTAATA TCATAAGTCA AAGAGGGGAC ACCCCTACAG ATCCCATGGA
TATTAAAAGG ATAATAA

SEQ ID NO:377: (Length of Sequence = 455 Nucleotides)
GTTACAATTG AGAAAACATA TTTAATAAAT CATTGTCAAT TTTNATAATG TTTCAAGCCC ATTCTTTGTT GATAGCCTCC
ACATTTATAT GGTTAAGTCA TTGTTGCTGT GTTTCTTACC TATGACATTA TTTTNATATC CCTTCATTTG TGGATCTTAA
GATGTTGCAG AAGGTTCATT CCTGTACCCC AATACAGATT CACTTCCTTT AGCTGCCTTT NCTAGCACCA ATATGCTTTA
AAAAAAAAATG CGCAAACAAC AAGCAGTGAC AGCGGCCAAT TCCTCGAATG TCCAGATTAA TAACTGTAGC ATGCTAAAGA
AAGGTGTGTG TAAATAGCTG GAGATGGTAT ATGGTCCAGA GTCCAGCATA AAATTATTTC CTTTCTGAGG CATTCCCTCC
ATTCCCCTAA CCCGGATACA TGCATTAGGA ATGTAGCAAA ACCCTTCGGG GAACC

SEQ ID NO:378: (Length of Sequence = 349 Nucleotides)
GATGGTCACG GGTGTTATT ACTGGACATG CTCTATGCTT ACTTGCTTGA AAACGCTCCA TTAGAAAATN AACTCTGAAA
ACTATATGCC CAATGCTAAT AGTGGGTATT TATTGGTAAC ACTCTTTATC AGGTGCTATG ATTGTTGATG GCTTTATTTN
CTNCTTCATA TTTNCTATAA TTNCTACAAT GAACATGTAT GTATAATCAG ACAAAAAAGC CAAGAAATAT CCATAAGTTT
TNCTGGTCAT TCATTCATCC CATAAATACT TGCTGAGCAC CTGCTGTAAG CCAGGCTCCG AGCCGGCTGC TGGGTGGAGT
GCCGCACCCC AGGGAACGGT CAGCCCTCG

SEQ ID NO:379: (Length of Sequence = 421 Nucleotides)
ATTTTGAATC ATATTTTACT TATAGGTTTG CTGTATATAC TGATTAAACT TCTGAACCTA AAGATTCTCT ATAATTAAAC
TAGCACAAAT ATAATCTGTC CCTTACCCAC ATTGTAAGAA TGTCTGGTGG GGAAATCCA ATATTGACCT TCACATTCCA
CATGGAAAAT CTTTGTCCCC AGAGTGCAAT TAGGGTGATT AAAAATAAGC AGCTTTTGTG AGTCTCAAGT TTGTTCCCCA
ANCAAGCAGC NTCNGCAACT GGAAATTTGT CAGACATGCA AATTATCNAG TCCCACCTGA CNCNTCAGCC CAGATCTANG

GATCAAAAAT TTTGGGGGTG ACCCTGGGCA ATATGGGCTT TAATAAGNCC CTAGGATGGG TTCTGATGCA TGCTCCAAAT
TTGNGGATCA TTGNTNCTNT G

SEQ ID NO:380: (Length of Sequence = 311 Nucleotides)
ATTTTNAGAT GGAGTCTCAC TCTGTCGCCC AGGCTGGAGT GCAGTGCCAT GATCTCGGCT CACTGCAACC TCCACCTCCC
AGGTTCAAGC AATCCTTCTG CCTCAGCTTC CCCAGTAGCT GGGATTACAG GCACCTGGCT AATTTTTTTT TTTTTTTTTT
TTTTGAGATG AAGTCTTGCT CAGTCGCCAG GNTGGAGTGC AGTGGTGTGA TCCTGACTCA CTGCAGCCTC TGCCTTCCGT
GTTCAAGCGA TCCTCCTGCC TCAGCCTCCT GAGTAGCTGG GACTACAGGC ATGCACTACC ACACTTAGCT A

SEQ ID NO:381: (Length of Sequence = 442 Nucleotides)
AATCTGTGAA CATATATTTT NATTTATCTT AAATACCTAA GAGTGAAATT NTTGGTTCAT ATGTGGGTAT ATATTCAACT
TTGTAAGAAT CTACCAAAAT GATTTTCCAA GTATATGTAT AATGTTATGG TCATCAGANC TACATGATAG TTAGAGTTGG
TTAACATACT CACTGCAATG GATTGACTTT CCTGTGATTC AGCTATCCCA CTCTTAGGCG TATACCCAAG AGAAACTCAT
AATGTCCTTG TGTGCAGCTT GTATGCTAAT GATTTTAGTA GTATTTTTTG TAATAGCCAN AAGGTGGAAA CANTGAAAAC
TTTCACGGAA ATGATTAATG AATTAACAAA ATATTATATA TCTATATATG ATCCATTAAT CAATGAAANG GANTGAAGTG
GTATACAAGA AACACCACAG GTTAACCNTT GAAAGTATAT TA

SEQ ID NO:382: (Length of Sequence = 337 Nucleotides)
AACAGACTTT GGAGCCANTC CCATGTGAGT TTGAGTCTCA GAGTGACTCT GGGCAAGTNA CTTAGGCTTT CTGAGACTCA
CTTTCCTCCT TTATAAATCA GGAAGAATAA TCCATTGCTC ATTGAGTTGT TAATNAGACA TAAATGAGAT AGTGTATCTA
AAATGTGATT TGTTAAGTCT AATACGNAAT AGATGCCTAT TTGAGTGTTT CTNATACTCA GGATGGTTCT TGGGATATAT
TTNCCCATGG AACAAAAAGC AGACTACTCA TGACCACTCG GATTTTATGT TCAGCCACAT TAGGGCTCTT ATGGCCTGAC
CTGAAGACCT ACCATTT

SEQ ID NO:383: (Length of Sequence = 421 Nucleotides)
GTGAAACTGA AGAAGACCAC GACAAACGAT CGCTCAGCCC CTCGCTTTTC TTAGGTTCAC AAGAAATGCG CCGGTGGGGA
ATGAACTNTT TCATTAATAA AACCTAATTT GTCTTGATCC ATTCCACTCT ATAATAAAAC AAAAGATTTT NTAGGCAACT
CGGAATATAG CTCTTTTGAA AGTACTCGAC ACCTTTAGAT AAGAATTAAA ACCAACCTAT GTAACTGACA TAATCTTGAT
CTNTTAATTT GTAAATATTG ACANTTTNCT TTCTGCACAT TTTAATCTTA GTTTCCCTTT TGATTTTNCT GAAGGTGCCA
AATTCCATTT AACTNCTTTA CAAGTCTTTG TAAAATTTTA AATGCATAAA GGGGGGTTGG GGGCAGGGGG ACCNCGGANG
TAGTTTAATT TTCGGAAAGG G

SEQ ID NO:384: (Length of Sequence = 420 Nucleotides)
GGACTCCGTT CCCAAGAATA AGTTTTGCTT GGGCGGAAAG TATGTGGTTC ATCCGAAAAA AAAGAAATCA ATGATTTGTG
GCAGTTCTTC ATGTGCTTTT GGGCATTTNC ATATCTTCCT TGGAGAAATA TCAATTAAGA TCCATTGCCG TATATACATA
TATTAAAATT ATGGGTCATG TATTATGGCT CATACCTGTA ATCCCAATGC TTTTGGATGT TGAGGCGGGA GGNTCACCTG
AGGTTAGGAG TTCGAGACCA GCCTGACCAA CGTGGTGAAC CCTGTCTCTA CTAAAAATAC AAAAGTTAGC CAGGCATGGT
GGCATGCACC TGTAGTCCCA GCTACCCAGG AGGCTGAGAC AGGAGGAATT GCTTGAACCC ANGAGGCAGA GNTTTCCAGT
GAGCTNAGGA TTGTGCCACT

SEQ ID NO:385: (Length of Sequence = 404 Nucleotides)

GTGACAAATG TTAAGAAATT GTGTGTCAAG CAAAATACTT TAGAGGCCAA TGGGCCACAT GTTTTTAATA TCAAGAGATT
ACACACAAAA TTTNTTTTCT AGCTTCTTTT GAAAAATCAG AATTGGGAAG ATGTATTCAT GAGTGACTGC TGCCCCCTTT
GGTTGGGACT CGTTCCTTCA GGTTCATTAC ATGGTCATCA ATAACCATTT CCTTGGTCCC TGCTTTTGTC TTGTCTGGNC
TCTAAGCATT TGAATTTTTA GTATTATAAG AAAACTTAAT ACTTTNCTAT CAGTCACCAC ATACATGTGT TTCTATCTGT
ACTACGNCTT ATTAAAAGCN TTTTATCAAT AGCCNCCATT TTGGAGGGGG GGATTTCAAC TGGTGCCTNG ACTAGCAAGG
AATT

SEQ ID NO:386: (Length of Sequence = 267 Nucleotides)
GTCTTGTGGA CATTTACGTG GTATCTTTAG AGCAAACACA GAGTGGTTGC ATAAGCTGCA GTGTTTTAGT ATCGGTGGGA
CTGTGGCATG GCGTAGAGGA GTNACAGTCG CAAACTGATG GCCCAGCTCT GACCCTCCAG GCAAGTGGAC TCCGAGGAGT
ACCAGCAGAT CTTCCCACAT GCGTCGGGGA GGGCTCTGGG GAGAGTCAGT GGGCAGGAGA GGGTCAGCTG TGCAGGCTCC
AGGGCCCAGC CCCGTGCTTT CCCCTCT

SEQ ID NO:387: (Length of Sequence = 384 Nucleotides)
ATTTTAAATG ACATTTTATT TAGGCCAGGG GACCAGGTAA CATTATTTTT AGGAGGAGAG CAAAAGGTGT TATATTACTG
CTTCTAATTA CCTAGAAGGA AAGCATTTGC TACACTGCCA TTATGATTGG CTGCAGCAGT TCAACCTGGC TCTCGGAATC
TGCCATTAGC TTGACAGCAT ACAGAGCACC ATATCAGGGT TACTATGGGA AGACTCTATT GTGGCATCAG AAACACAAAA
AACACTGGAT ACAGTTAGTT TCTGTTGACA GTTTCAGAAG AAAATCCCAC AGATTGGACA GGCTGCCTGC TGAAAGGGTT
GTCACTACAC ACAGCATGCC CTGAACCCTG GGAATGAAGT TACCCCTATC TGTGGTGATC AGGA

SEQ ID NO:388: (Length of Sequence = 345 Nucleotides)
CTAAGATCAA ATGCAGGCAA AAGTGGTGAA TTTTACCACC TGTTTGTAAG TCTGGGTTTA TAACTTTACC GTAAATCACC
TAGAACACAG GCTAGCCGAA TCGGGGTGTC TGGTATGGCA ATATCCCGAG AGCTAACCTG GGGCTGGGGC AATGTTCTGT
GGCTGCTGCA CTTGCCTCTA ACAGGCCAGT TTAAAACGTC CAGCTCTCAG GGCCACATTC TCCAGGACAC AGCAGGGAGC
TCACAGTAGC TCAAGACCCG GCCCAGCCTC CATCCCCAGC CTTGGAGCTG TCAGTGCTCC CAAAGGCTGA AAGAATTCGG
TCTTGGCTGA GTGGACAGCC CCCTT

SEQ ID NO:389: (Length of Sequence = 156 Nucleotides)
TAACCTGCCC CAGCAGTGCA TGCAGGAAGA CTTCCTGGTG CATGAGGTGA CCAATCTGCC GGTGACAGAA GNACTGATTG
AGCGGGAGAA TGCAGCCCAG CTCAAGAAGT GGCGGGAAAC GCGGGGGGNG CTGCAGTATC GGCCCTCACG GCGACT

SEQ ID NO:390: (Length of Sequence = 364 Nucleotides)
GAGTCTCGCT CTGTCACCCA GGCTGGAGTG CAATGGCATG ATCTCGGCTC ACTGCAACCT CCGCCTCCCG GGTTCAAGTG
ATTCTCCTGC CTCAGCCTCC CGAGTAGCTG AGATTACAGG CACGTGCCAC CACGCCTGGC TAATTTTGTA TTTTCAGTAG
AGATGAGGTT TTGCCATGTT GGCCAGGCTG GGCTCAAACT CTTGACCTCA GATGACCCGC CTGCCTCAGC CTCCCAAAGT
TCTGGGATTA CAGGCATGAG CCACTGCACC CAGCCCAACA CTGGGATTCT TTTATCCGCT GGCTGGCTCT CCGCAGTTG
AATTGTGTGA CTTCTTCCCC TATCTGAGGC CCAGTTTTTC TTCA

SEQ ID NO:391: (Length of Sequence = 325 Nucleotides)
GAGTGTCCAG ATGATGGCAG TGATGGCCCA TCTGGAGCGG CTGCTGTAAG GACACTGGCT GCAGCAGGGG AGGCACAGCC
AGGCCTGCGC ACTAGGCAGA GCTGGTGTGG GAGCCAGGAG CAGATGAGAG CCCCGCCTTC TACCAAGTTG GCAGTGCAGA
AGGCCGCACT CCCGGGTGCT GATGCCGAGT TCAGCTCCAC ACCCTGGCAT CCCTGGCCTN TCAGGCGGCC AGGAAGCCCT

CCACCCCTGC AGGNTTCAAA GGGCCTGCTT CCCACTCCTT GGCCTTTCCC TCCTCCTGGG AACCATTCTG GGGCAGAGCA
AAGCT

SEQ ID NO:392: (Length of Sequence = 371 Nucleotides)
ACATCCACAC AAGTACAAGA ATACAGAAGC TTCTCTAGTC AGGATGCACT AAGCACCTAA TGAGTAAACA AACTTCAGCA
TATCCTCATT GTTCTCATGG TATTAATTTG AAGATACTTA CCTTCGAACT AAATCTGGTT TTAGAAGAGC TGCTTGTTGT
TCAGCTCCAA CTGGTTGGGA TACAGGCTGT AAACAGTACA GACATAAAAC TTGCTATGAT AACAGTAAAA TTCAAGCTAA
ATATACAATT TGTTACTATT CAGAAAACAC GATAGTTTTG GTTACCTTGC AAACCTGGTA GGAATATCTA TGTTATTGAA
TGTCTGTATC AATCCTATTA TTAACATTAT TACCAAAGGT AAATAAAATT T

SEQ ID NO:393: (Length of Sequence = 404 Nucleotides)
CCTTTTAGTA GCTTCTCTGA GGTGAAACCA CTTCTTTTTG ACCATCTAGC GCANTCTNTC TTTACATCAA CCATTTATTT
CAAGTGTAGT GTGCTTCAGA GTCTGAAAGA GCTATTGCAG AATTGGCTGT TGTGGCTTTC TATGGACATT CACATGAAAC
CTGTTACAAA CAGTCCTCTA GAGACAACTT TGGGTGGATC CATGAACTCT GTGTCTAAAC TGATCCACTA TGTAGGGTGG
CTATCCACTA CTGCAATGCG CTTGGAGAGC AACAATACTT TCTTGCTGCA CTTTATTTTG GATTTCTATG AGAAGGTGTG
TGACATATAT ATAAATNATA ACCTTCCATT AGTGGGTATT GTTCCTCCT GGGGATCCTT CTATTCTGCA CTCCTCAGCC
TGGG

SEQ ID NO:394: (Length of Sequence = 416 Nucleotides)
GCCACACACT GGAGAGGGAG AGCTAGAGAG TGAGACAGCA GGGGAGCTGA GGGTGAATGG CTGCTGTTAG AAGCCCTGGA
GACAGCCTGA GGTCAGAGCC CAGCCCCACT CCTGGCTGTG TGATCTTGAG CAGGGCTGTT AACTTCACTA GGACTTGGTT
TCGGTTTCTC ATAGAGAATA GGTACAGTGT GAATTAAATA TATATAGCTT GAATAAAGTG CCCAGCTTGT GGGTAGCTGC
TGCCATCATC ATCACCATCA CCATCATCAC CATCACCATC ATCATCATCA TCATCATCAT CATCATCATC ATCATCATCA
TCTCAGGCAC AGGGGCTTTA AGGACAACAT GCCCAGTTTA AGGANGAACA CAACTCTCTT CATTTATAGC GNCCCTCCAT
CAGTGAGTAG ACGCTT

SEQ ID NO:395: (Length of Sequence = 315 Nucleotides)
AGAGATCAAA TGTCTTAAAC ATTATGGAAT AGGAGTGTAT GACTGACTAA CATCCAGTAA TCATTAGGGA AAACAAACAT
GAGTGAGGNC AACTGAAATA ATTATGATAC AATTAAGGGT GGTAGGTTAC ATTTGTATAG TTCTTTAAAA TATGCATTAT
TCCACATGAT CAGAAATATA AAANGANCTA GACAGATACT GGTAGAGAGA CAATTAATTT AAATTTGTAA CATATTGCTT
GGNGCAAGCA TTCAAGTTGA GTGCTTAATG TGTATCGGTG ACTGCACTGT GCAAATAAAT TTGGGGTTAG TAAGA

SEQ ID NO:396: (Length of Sequence = 409 Nucleotides)
CTCCAGTTCT CACGTTAGGG TGCTTTCTTC CCCGGCAGAG TTTTTCGAGC TCATGAAGGT GGACTGCCTG GAAAGTACTC
TAGAAAAGTC ACTCCAAGCA AAGTTTCCTT CAAATCTCAA GGTCTCCATT CTCTTAGACT TCACGCGGGG CTCACGAGGC
CGGAAGAACT CCCGCACAAT GCTGCTCCCA CTCCTGCGGA GGTTCCCAGA GCAGGTCCGA GTCTCCCTCT TTCACACGCC
GCACCTCCGT GGGCTGCTTC GGCTCCTCAT CCCTGAGCGC TTCAACGAGA CCATCGGCCT CCAGCACATT AAGGTGTACC
TCTTCGACAA CAGCGTNATC TTGAGCGGTG CAAACCTGAG TGACTCCTAC TTTNACCAAC CGTCAGACCG NTACGTGTTC
CTGCAAGGA

SEQ ID NO:397: (Length of Sequence = 414 Nucleotides)

174

ACAAGCTGTG TGACCATAGG CAAGTTTGAC CTTTCTGAGC TGCCATTTTC TCATGGTAAA AGAGAGATAC TAGAGGAACC
TGCCTCACAG GATTGTCATG GAGAATAGAG GAGATGATAC AAGTGAAGCA CTAGGCAGCA CCATACTTGG AACTAAGGGA
AAGCCCGCAG TCAATGTTCA GTATTGTTAC ACTTGCCAGA TTGTGAAAGA GCGCAGGCAA CCCTTGAGTT GAGCTCAACG
CTGGAGCCAA GATCAATGAC AGAAGGATTT TGTTTTGAAA CAGCAACTAA TGACCAGAGA GAGGAAATGG GTCATGAAGC
TCCATGGTGC CTTTCATGAA AATGAAATGT AAGGGCGTGA TTCAGGAAAA AGGGACCACG ATCAATACCA GCAGACTCTT
CCCTATGCAC TGGG

SEQ ID NO:398:   (Length of Sequence = 400 Nucleotides)
CATCAAGCTG GGAATGCCCT AAAGTGGGGG CGTGAGGAAG AGAAGGGGTG ATACCTAGAG GCTGGGGTAT CTCTGTCCCA
AGGAGACAAA CTATAACAAG ACCCAGCAAC TGAAGGGTTA ACACCTAGCA CAGACGTATA CCTCCAGGNT CCTAGCTGCA
TTTCTAATTC TGCTTCATCT ATGCTTGAGC ACTACTTGTT GTTAAATATA CTTAATATCA CTCTTAGCTA ATTTCCTCTA
TGTAGATTTT TATTTATTTC TGAGGGCAAC CCAACTTCCA GGCTCTTGGA AGGAAATAGA CTGCAGCCCC TAAGTGTGAT
CAATACTTAA TTATAACAAT AATCACTAAT AATAACTTGT GCTGCTTCAT TGTAACTAAA ATGTACACTT TTACATTTTT

SEQ ID NO:399:   (Length of Sequence = 324 Nucleotides)
AAATATTTAC AATTTTACAC CTTCAGGAAG GCTCCAAAAT ATAAACACTG TACCTCTCCC TAGAGAAAAA AAAATTATTC
TTCTCTTCAA AAACAGGAAT ACATTCATTT TTTCTCACTG TGTGAATCAA GTAATTATAC AAATAAACAT CTGAAACATT
TTCCTTTTTA ATATATTTAT ATAATATATA TTTNTAACAG CTTTACAAAT AAAGGCAACG GTCCTTTTCT AATTTTCATG
CCTCTCAACA GAAGGGTACA TGATGCTCCC TGAATTCCAG GGNTATTTTT TNCTCTCTAT GGTACTTTGT ATTTCACTTT
ACTT

SEQ ID NO:400:   (Length of Sequence = 388 Nucleotides)
ATTAAATCTG AGTTTTGTTT GAGCATCTTT CAACATGTAC CATATTTATG ACAATTCTCT TCCATAGGAT CTATCTGTNC
TGCAACAAGT ATTGATCTTA CAGTAAAATT TTTCACAAAT TCATTAGATT CTATGTCTCT TTTTCTGGTA GGAATTTTTG
TGCAGGTAGC TATCTCTTGC CCTAGATTAT TCTCCTTGTT TAGCTGCTGA TTCTTAAACT GGCCTCTAGA TTTCCAGATT
TCTTCCGGTA CAGACTTTCT CTTTGCAAGT NCTTCCATCT CTAATCTTTG AGATTAATCT TCTTTTGAAA TGTCCTGCTG
CTCTACTCTT GTATGTCTTG GNCCCACGTT CAAGCTTCCC ATCTAGCAAA ACCAGGGTTT CTAATATT

SEQ ID NO:401:   (Length of Sequence = 339 Nucleotides)
GTTTATTGCT CAAAAACAAG AATTCAGAAG CAAAGGTGGA GAGACTGTGG GTTGGGGAGA TGGCAGGAAG GGGGCAAGGC
CTTGTCCCAG CTCTCCCCTT TGTCCTTCTT CTGACCCTCC TGGCCGGAGT CAGGCCTAGG GCCAGGGCAT CTGGGAGGGG
GGCACCTTCG TGGCCAAGGG AACAGTAGAG CTATCGGGGG CAGTCCTTGA GGGGTGCCCT GGGCAGGAGG GGCTGCAAGA
TTTNCAGGGA GGCAGAGTTC CCCTCCCAGA ATCCAAAAGC CGGTAGGGCG GGGGCAAGG CCCCTCGTTT GGCAACTNAG
AAGAGGCGGC TTTTGGGCG

SEQ ID NO:402:   (Length of Sequence = 400 Nucleotides)
TGTCCAGTGT ATGAGGACGT CCCAGCGAGA AATGAAAGGT TCTATGTTTA TGAAAATAAA AAGGAAGCAT TGCAAGCTGT
CAAGATGATC AAAGGGTCCC GATTTAAAGC TTTTTCTACC AGAGAAGACG CTGAGAAATT TGCTAGAGGA ATTTGTGATT
ATTTCCCTTC TCCAAGCAAA ACGTCCTTAC CACTGTCTCC TATGAAAACA GCTCCACTCT TTAGCAATGA CAGGTTGAAA
GATGGTTTGT GCTTGTCGGA ATCAGAAACA GTCAACAAAG AGCGAGCGAA CAGTTACAAA AATCCCCGCA CGCAGGACCT
CACCGCCAAG CTTTCGGAAA AGCTGTNGAG GAAAGGGAGG AGGAGGACAN CTTTTCTGAC CTTATCTGGG AGCAACCCCC

175

SEQ ID NO:403:   (Length of Sequence = 416 Nucleotides)
AGTTGACTGC TCTGATATGG AGAGACCTGT TAGTCTTGTA TATAGTGCCC AGCCGGAAAA AGCATCTCTT GAAGGTTAGG
GCATTTTGTG AGGAGAGCTC TAGGGCTATA TCAGTCTGGA GGTATGATCT CTGATAAAGA TCATAATTCT CATCTCAGTA
ATCTTCTTTA GAACAAAACA TTCTTCATTG TAAGCTTCTC ATTAACTGAA GGCCACCTGA TCTGAGATTT TGGCTCTTAG
AATACTCTTT NCTGTGTCTC AATCCTCATA TGGCTTACCT CTGAAATATA GAATATATTT CCTTGTGTAG CCTGGTAGAG
TTGGGTTTTG TTTTGTTTTT CAAACAGTAA CTTTTATTTG ATTGTAAAAC TTCCAGATTT CTGAGATGCC GCCTTACCAG
TCTTAAGGTT GATTTT

SEQ ID NO:404:   (Length of Sequence = 368 Nucleotides)
CCTCTNACTC ATTGTGATGA GTAGGGCGGA GGGCTTCACT GCCTCANTTT CCCCAACTTT GGACCTTAAA TCCTCTCCTG
ATGCCTCTCA GCCCAGCCAG GAAGGAGAGC TAAGACCAAG AGGGATTTAA CAGATGCAGG ACACACAGCC TTGTCCTCAG
ACCCCCCAAG TCTGAGAGAA GCAAAACACT CACCTTGAGA GCCCTCGGAC TTGGAGGTGA GGTGCAGAAC CCAGGCTGGG
TGTGTGCTGA GGGGTGGTGG GGGTGGGTGG TGCTGGGTGG CTGGCCTGGG AATACTTTTC TTAAGCTAAG GCTGGGGCTT
AGGGGAGGGC CAGAGGAAGG GTAAATAGTT TGCCTGGGGG GGTGCTGG

SEQ ID NO:405:   (Length of Sequence = 395 Nucleotides)
GACAGGTCCT CACTCTTACC ACAAAGCTCA AGTCAGCTTG GCCTCTCAAG TGGAGAGATA ATCGTTCTAT AGCAAGAAGT
ACAAAGATTC TCTGCAGACA AAACCAGCTA GCCAAGGTTC CACAACATGT GTACACGTAT AAGTCTGNTG GATCAGAAGA
AATATGTACC CGGGAATCAG ATGTAGCCAG CCCACATACT AACAAACATC AAAGCAAGCC TAGTCAGATT GAGTCCCATT
TGAACAATCT TTATAAAGGT TTCTTCATGT TATTTACAAT TCAAAGTAAA TTTACTTTAT AAGCAGCTAG GGGAATTCTT
TATTTAGTAA TGTCCTAACA TAAAAGTTTC ACATAACTGG CTTCTGTCCA AACCATGGAT ACTTGAGCTT TGTGG

SEQ ID NO:406:   (Length of Sequence = 358 Nucleotides)
GATACCTTAA TCTAAATTTT ATCTTAATTT TTATTTTTAT TTCATTGTCT AAATTTTTAT CTAAAATTTT TNCTAGCTCT
TTATTACACC AAGACAGCTT CACATTTTTA TTTATATATT GTACATCTCA TGTAAGGNAT TACCGTATAT AAGCTAGTGT
CATAACTTAA GTAGCCACAT TCATTCAGTA TGTTTTATGT TTTCTCTCTG ACTGGATCTC TGATACATTC TTTCCTGTTC
TAGCTGCTTT TATGCAAAAG GGCATTATAT GTTTGTCAAT CAACCAGGCT TCTGTGACTG TTTAGAAGGA ATTATGTAAA
TATATAATCC NGTGGCCTGT TTCACTTTGG CCATGTTT

SEQ ID NO:407:   (Length of Sequence = 294 Nucleotides)
CTGTGTATAT TTAGTATCTT TNATTAAGAA GACTGGTTGA TATTTGCCTT CAGCTAATTT ATAGAAAGGA TGATCATCAA
TGTCTCTAGT TTTCTTCTAA GTGGCTTGTC TGTGCAGGTA CATATAAAAA TNCAACTATA CAAATAGCTG GACAGTTGAG
TCTCAACTAT GAAAATCTTT TCTGGGATCA AGATCTAAGA AGTTGGTGTG TGTATGAGTG CAACCCATCA TTCTATCCCC
TAAAAATCTG GGGTTTCTCA GCCCAAACAT TCNCACTAGT AAAGTCAAGT TTCA

SEQ ID NO:408:   (Length of Sequence = 367 Nucleotides)
GGCAAGGAAA GAGAGCTTTA AATTGAAAGG TTAATTTCCT AAGAGGAACC TGGGCTGAAT GACTGCAGTG TTATACCCTC
CAATCTTTGC AGGTGGGCAT GGAACACTGC TTGTATCACT CTGTGCACGG TATAAATCCA TATATCCACA AAAACACACA
TCCATCCATC AACATATACA TGGTTTGGGA TGAGCAGGTC AATAGTTTTG AGAGGGAGTT TGTNCCTTTT TTTTTCTCAT
TATACTCTTA AATTGTTGTC AGTTATCAAA CAAACAAACA GANAAATTGT TTGGAAAAAC CTTGCATACG CCTTTTCCTA
TCAAGTGCTT TAAAATATAG NCTAAATACA CACAGGCTTG AGGCAGA

176

SEQ ID NO:409:   (Length of Sequence = 233 Nucleotides)
AAGAGACAGG GNCTCATTCT GTCAACCTGG CTGGACTGCA ATGGTGTGAT CACAACTCAC TGCAGCCTTG AACTCCTGGA
CTCAAGCANT CCTNCCACCC CAGCCTCCTG AGCAGTTAGG ACTACAGATG GGTGCCACCA TGCCCAGCTA ATTTCTAAAT
TTTTTTTAGA GACAGGGTCT TGCTATATTA CCCAGGCTGG TCTCAAACTC CCTGGGCTCA AGTGATCCTC CTT

SEQ ID NO:410:   (Length of Sequence = 295 Nucleotides)
GACAGGGGGT GGGGAATTCT ACTCCATGGT ATCTTCAGAG CTAGGATAAT GCTCCTTATG CAATCCCACT GCATATGACC
ATGGCAGTAG AACAAGTTCA ATTACTACAC TGGATGCGTT AAGTGTGCTT TCCTAGCAGA AAGCACCAGG GTGGAGTCAA
CAGTTCACAT GCTAATACTT GGAAGTATTT CTAGAAGGGG GTGCTCAATA GAGGGCAGAC ATGATGCAAG NNCTTCATAC
TAGAAAGGTG TCCTGTGTGT GCATGCACAG CTGGATGGGG GCACACAGGA GCAAG

SEQ ID NO:411:   (Length of Sequence = 304 Nucleotides)
AATAAAAAGA CCATTAACTT AAAGTGGTGT TAAATGCTTT GTAAAGCTGA GATCTAAATG GGGACAAGGC AGGTGGAGGG
GAGGCCAGTG TACATGTAAA TGCCCACAGC CCAGCATTGG GTTTCCCTCC CAAGGNCCCA GCACCAACCT CTGAGCCCAA
GACCTTGCCT GAAAACAAGC AGATACCGAT TGNTTCATCC TATTTATGGA CATGTAGGTC TAGTTGCATT TTCACTNGGG
GGAGGGGGGA AGGTGAATTA TGGTAACTTT TAATGATCTA TTCAGGCAGT AGAGCTCTTA AGGG

SEQ ID NO:412:   (Length of Sequence = 250 Nucleotides)
CAGGTGCGCA CTATCACGCC CGGATAATTT TTTTTGTTTT TAGTAGAGAC GGGGTTTCAA CATGCTGCTC AGGCTGGTCT
CAACTACCGA CCTCGTGATC CGTCCACCGC GGCCTCCCAA AGTGCTGGGA TCACAGGCGT GAGCACCNCT CCTGGNCACA
GGTNGAGACC CTTTCTATAT AAGAAAGAGA AAAATGTCTC TNANTCACAA GAGAATGCTA ACAACGGGGG AAAGCACAGA
CACAAACCTG

SEQ ID NO:413:   (Length of Sequence = 337 Nucleotides)
GTACTGGGAC AAGGGAAGGC AATCACAAAC AACTGCCCTC AGGAAGAACT CAGTCCCTGA CTGTAGTGTC TCTTCGGGGG
AACCAATGCC ACCCNCCTCC ATCCCCCAGA CGGGCGAGGG GCTGCACCCT TAAAGCAGGC CATTGGGCCT TCCGGGCTCC
AGGGCCAGCC CACCCCGNTC CCGCTGGTGG ATCTTCTGGT GCTGCAGGAG GTGCTGCTTC TGGACAAAGC TCTTNTCACA
CTCAGTGCAG CTGTAGGGCC GNTCACCCGT NTGGATGCGC TGGTNCCGNA CCAAGTCAGA TGGGTGACTG AAGCTCTTGC
CACAAGTAAC CACAGAT

SEQ ID NO:414:   (Length of Sequence = 304 Nucleotides)
GGTTTAAGAA CTGCGTTTTG GNGCCCAATC TTTGGTGAAA AATATTTTTG GGTCATCTTT GAAAAAAATC CTTTTCAAGG
CAGACAGCAT TTTAATGCTT TGTCTGTTTT TCCCTGTTTG TCAGCTCTGN CACCAGCCTG AAAGATTTAA AAATNCAAAT
TAATGGAGGN TTATTTGTCC TNTACTCAGG TCACATTTCT GGGTTTTAAT GAAGNGACAG ATGCTGCTCA TATACAGGAT
TTAGCTGCAG TTTCTTTGGA ACTTCCAGAT ATTCTGAATT CACTCCACTT CTGCAGTCTA AATG

SEQ ID NO:415:   (Length of Sequence = 315 Nucleotides)
CGTTGTGGAG TGGGTGTCTT TGGATAGAAG GAGTGAGGAA CTGGGGGAGG AAGGCCTGGG GGATCCCCTG GCGGGGCTAC
TTCCTGGGCC CGGNATGGAC ACCTGGNAGC TGCTGCGNTT GTTGGGGTCC TGGCAGGGGT GTGGTGTGGC CCTCACCACT
CTGNTCACCT GCTCCTTCCT NACAGTGCCT GGAGAAGTTC CCTGTNATCC AGCACTTCA AAGTTCGGNA GCCTNCTGCC
CATCCATCCT GTCACGTCGG GCTAGGAGGG GNCAAGCCGA AGAGCCACCC ANGNCACANT TCCTGTGCCT GCCTT

177

SEQ ID NO:416:   (Length of Sequence = 343 Nucleotides)
GTATTTCAAG TGTTTTATTT GCTTTCTGTG GTGTCAAATT TGGGGTCTCC TAGAGCCCAG CCCCAGGCAG AATCCGGCAT
ATCCTTCTCC GCCTGGGGGG CCCGGGACAC AGGAGTTTCA GAAAAGGCAC TGGCAAAAGT NCTAGGGCGG GGGTCAGGGA
GAAGCCACAC TGAGCCTGGA GGGACCGGGC CCTCCTTCGG CGGCAGAAAA CACAGTCACC TTTNGCAGGG AAGGGTTTTT
NCCTAGAAAG AAATTTAAGA CAAGATAAAA ACCTGAGATG TTAGAGGAGC CCCCAGAACC AAGCCGGTGC TNCCCTGGGC
AANCAGAGAG TGAACTCGGC TTT

SEQ ID NO:417:   (Length of Sequence = 202 Nucleotides)
TATTTCTCTG TGAAAAGGGG GAAAATAAAA GGAATAAAAT AAAAACGGCA CAGTTGACAC ACAAAAAAAA ACCAATGATG
GGGAGGACGG GAGGTGGAGA AGTAAATGGG GGAGGGGNTC CCATTACAGC AGCAGGATCC AGTNACCCGG GATGCTCACA
TCTNTCCCTN ACGTGGGCGG TGTAGCCCCT TCCTCCCAAG GT

SEQ ID NO:418:   (Length of Sequence = 299 Nucleotides)
CACCAGTTGG CTGCAGAGCT GTCTTCAGGA TCATAGGCCA CTGCCAGAGT CTTGGAGAGA GGGAGAGATG GAGAGGAAGG
GAGTGAGCTT CGGTGGTCTG ATTTCTGGCT CAACGACGCA GGAACCTCAG GTTCAAAAGC AGCTGACAAG AGCCCAGAGA
CCGTCTTCTT GGCGTCCGGC AGAGCCTTCT GGTGGCCCGA CACCCAGGCA NGGAGGGAAG GCCCTGAAAT CCCGTTTTTN
TGGCAAGATT NGTTTCCAAG AGGAGATAAT GGCTCAATTT TGTCTTCCCA AGTTGATCA

SEQ ID NO:419:   (Length of Sequence = 223 Nucleotides)
ATTGTTGGGA AGGTAACATT TTTCCATGGT TTTNATTTTN CCCAAAAGTA TTTATGTATT GATTTATTTG GNTCTGACTC
AGGCGACGTA CTGTAAGACG ATATTACTTT AATCATCTTC ACATCAGTAT TTATGGAATA GCCACAGGTG CCTCATCCTT
TAGTAGGAGT TAATTATACA TTTNCTGGCC GAGTAAACAT NTCCGAATGG TATGTATGTA TTT

SEQ ID NO:420:   (Length of Sequence = 406 Nucleotides)
TTTAAATATT AAGTTAAGTA TATAACTTGC CCTATGCCAT ATTGCTTTAA TCAGGGGACT GAGCATCACA TTTAGATTTG
ATGAGTTTGG GAAAAGTTCT CAAACATCCA GACCCATGGA CCTTAAGAAT TACTGCAGAA ATCTCCTTCA ATATAGTCAT
AGGGAGCATT AATGCTTTTG TGGTACTAAA CATATTTTTG AGCTTAGATA CAAATCCTTC TTGTCCTGAA CTGATAGGGT
AGGAATTGTT TAGGTGCTTC AAATCCAGAT CTTTCAGGGG TTGCCACCTA AACTCATCTT TATGAGTAAC TCTAGATAAT
AATACACTTT GGTATCTTCC AAAGTGCTTA TCTAGGCATG GAAAAGTTCA GTAATTATCA TGAGGNCCTG TTTTTAGGTT
AGGTCC

SEQ ID NO:421:   (Length of Sequence = 281 Nucleotides)
ATCCAGATTA CTGACTTGTA CACAATGGAC CATATGTNCT GTCCAAAATA CACCTACATT ACACTGTGTG GAACANGAAC
CTGGGCTTTG CAAAAAAGAA TTTATGATTA AAATGTAACC CCCCCCAAAA AAAAATGAAG CTTAGAATTA AAGGTAGCCT
TTTACCCAGA TTGTTCACCA GNTTGTAAAA TTCTAATATG GGTCATTAAC TGTTCACAAA TAATTCATAT TTGGNCTTAT
GGTTTAAGGG CTCCAGATTG AAAAGGTGCT CTGAACTTCT G

SEQ ID NO:422:   (Length of Sequence = 220 Nucleotides)
TTTGTATTTT TAATAGAGAC GGGGTTTTGC CATGTTGGCC AGGCTGGTTT TGAACTCCTG ACTTCAGGTG ATCTGCCTGC
CTCGGTCTCC CAAAGTGCTG GGATTACAGG CTTTAGCACT GTNACTNNCN GCCTGGCTGG CTGGCTGGCT GGCTTTCTTT
CTTTCTNTTT TCTNTCTCTC TCTCTCTCTC TCTNNCTTTC TTTCTTNCTT CCTNCCTTCC

SEQ ID NO:423: (Length of Sequence = 391 Nucleotides)
CTGTCTCTTA TCTGGGCAAG CTTTAGACAT ACTAGCTTGG TTGGAAACTG ATATTAAAAG CCTAAAACAT GTAACTTTNC
TTATCAGGTT ACTATCATGG GGAACTAAAG ATTCCTGGTT TTTTGTATGT NCCATAACTA TACTTTAGTA AGCCCTGATA
TACGGTGTTA ATTTTCCTNC AGTGAAGGAA ACATGAAGAT ATATTTATGT GCACACATAC ATATATATGT ATATATAACG
TATATTCAAA CATGCACTCA GAGGAAGTTA GGGAGAGAAG TTTCTAGCTA AACATGATCT TGTGAAATTC TTCCATATGT
GGAAAAGTCG TCAGTTCATC TGACATAGAG CAATACCATA CATATATACA CACAGGGTGC TATGGTATAC A

SEQ ID NO:424: (Length of Sequence = 379 Nucleotides)
TGGGGAGCCT GAGGCATGAG AATCGCTTGA GCCCTGGNGG TGGAGGTTGC AGTGAGCTGA GACCCCGTCA CTGAACTCCA
GCCTGGGTGA CAGAGCAAGA CTCTGTATCA AAAAAACAAA CAAACANACA AACAAAAAAG CCTATTATAA AACAATAGGA
AATGCTGAAG TCTAGTGCAC CAAGACATAC TGAATTTCAA ACTAAATAAA TTAAAATTAT CATGTACATT CCACTACATG
TCAAAACAGG AAAANCCATA GTATTATAGT TGATATGAAA TGANGATTAC ATACANCAGT AATACAGAGN AAACATGAAG
CTGCTTATAT TTATTTGGGN ATAAGGNCAN CAGGGGCCAA TGATTTTCAC TGCAGATGT

SEQ ID NO:425: (Length of Sequence = 448 Nucleotides)
TCCACAGGGC GGCCTGGGGT CTGGAGATGG GCGCTGGGCC CACGGGACGC AGATGGGGCC ACGCTCTGCC CGTGGCTGGC
CCACGTTCCT GGTCTGCAGT GCTGCCTCCT CCCCAGCACC CCTGGGGCAC AGAGGGCAGG GTCACAGCTG GGAAGAGGTG
GGGGGTAGAA ACCAAGGCTG GCAGAAGTNT AGCCGGGCTC CCTGATAAAT GCTGGAGGAC CCCAGGGCAC CTGCACTTAC
TGTACCCTCT CTGAGAGCAT TTGTATGATC TCATGTCTCA GCTCTNNGAG GCTGGAGGTC CCAGAAAACC AAGGTATGGG
TAAGATTCAG TCTCTGGGTG AGTACCCAGT TNCTGGCTTC TAGATGGCGC CTTTTTCCCT GTGTGTCCTC AAATGATTGG
ATGAGGCCAG GGTGCTCTCT TGGAGTCCTT TCTGTAAGGG CAACTGAT

SEQ ID NO:426: (Length of Sequence = 417 Nucleotides)
GCCTGGNTCA TCGCTGTCCT TTCCTCCTTG TCAGAGTCAG TGACACTGAC ATTAAGGTCA TCGAATATCA ACCAGGTCCT
GAGGACCTTG GTGTGTTTCC TCCTCTCCTA GTCTCCAGAC CCCAGCCTGT TCATTCCTGA GCTTCCTCTG GCACCCCTTC
CTTGGGGCCA AGCCAAGTAA GAAATCAGCA GGCCCAAGGT GGTGCTTGGG AGGCCGGGGC AGTGCCAGGG GCAGTCCTCA
TACCATCCTC CCACTGGCTT CCCTCCTGCC TGCTCTTAGC CGCCACACAT ATCTCAGCTG TCGAATCCGA TTAGGGNTTC
TGNCCAGTGA GCCAGACAAG GAGGCCACTN GGCAGGGGAG AGAGAGACAA GGACGCCAAG CAGGGATTGG CAGAAGGAAG
GTGGAGACAT GGCTCAA

SEQ ID NO:427: (Length of Sequence = 317 Nucleotides)
AACCCTGTCT CTACTAAAAA TACAAAAAAT TAGCTGGGCG TGGTGGTGGG CGCCTGTAGT CCCAGCTACT CGGGAGGCTG
AGGCAGGAGA ATGGTGTGAA CCCAGGAGGC GGANTTGCAG TGAGCCGAGA TAGTGCCTCT GCACTCCAGC CTGGGTGACA
GAGCGAGACT CCGTCTCAAA AAAAAGGGCT GATAATGATA AACAGTGAGC ACTCCGGTCC TTTTTCTTAC GTTTTCCTTT
TTTCCTTCCT CTCCACCCCA CAAGTTTTGC TTTTTAACCA AGGTGTCTCT GCTTGATGGA AATTCACATG CTAGTCT

SEQ ID NO:428: (Length of Sequence = 296 Nucleotides)
GTAATTACAG TATTTNCACG TAGAGACGGG TTTCTCCATG TTGGTCAGGC TGGTCTCGAA CTCCTGACCT CGGGTGATCC
GCCTGCCTCG GCGTCCCAAA GTACTGGGAT TACAGGTNTG AGCCACCGTG CCCAGCCGGT TTTTTTTTTT TTTTTTGTAT
AGCAATGGAA GAATGGCCTC GTACACACGN TAGAGTGGAA AGTCCCAGGC ACCAAGGNTT CCCACCCTAC AAGCAAGCTC
AGGGCTTTCT CTTCATCCTT CCAGGGAGAG CACTGAGAGA TGATGGGGGG TTGGCA

179

SEQ ID NO:429: (Length of Sequence = 422 Nucleotides)
GAGGGTTGGA GACAGGAGAC AGTGGGGTGG GAAATCCAAA TCTCAACTGC TTTTGTACTG TCTCCTGCTC CCGAGTGCCC
CANAGCCCAT GCAGACCCTC TGCTGTCTAT GATATCCTGT TCAGCCCTCA ACTTTCTCTA CCATCCCTGC AACTGGGGTT
CACTGTGAGC CAAACCAGTT TGCTTCTTGT TTTCTAAAAG CAGGCAGCCC TTCAGGACTG TNTCATTCAA GGCATTTCCC
ACCTCTNTTC TCCACTCATA TCCCTTCCCA AACTGCCTTT CCTCATTTCT CCGTCTCCAG GGAGAGGGAC TNCAGGCTAC
CACAGNCAAA AATGGTGGTC TTCAGTCCTA CGTAAGNCAA NCTGTGTGAG TGTGTAAGGA CTNAGGGTTG CTCACAAGGG
GACACACAGA NGTGGATGCC AG

SEQ ID NO:430: (Length of Sequence = 332 Nucleotides)
CGCGATCAGC ACCCGGGACA GCGCCACCGC CCACGTGCAG GGGNTGGGGT CCGGGCGGGG CTNGCGCCTC GGCGTCTCCC
GGNAGTNTCC CGTCCAGCCG TCGAGCAGGG TGCTTGANTN TNTCTGCAGA AAAGACTCTA GGACCCCGCC ACCATGTTCC
CGGAGCCCCC AACCCCGGGG CCTCCATCGC CCGANACGCC TCCCGACTCC AGTCGCATCA GCCACGGCCC AGTGCCCCCC
TGGGCCCTGG NCACCATCGT GCTGGTCTNA GGCCTCCTNA TCTTCAGCTG CTGTTTCTGT CTCTACCGGA AGAGCTGTCG
GAGGCGGACA GG

SEQ ID NO:431: (Length of Sequence = 413 Nucleotides)
TGTCATTATT TAAGATGGGG GACATCCAAG CACCTGGAAC AAAAAGGACA CTAAGAATGG GAGAAGAATA CACAAAGGGA
GGTAGTACAG GGCCAATAAC AGATTTTTGG AATTTTTCAA ATTTCTCTTT GAAGTAATTT TACAGTCAGT AAATGGAAGT
GGAAAAGAGG AATAGAAGAG CATTTCATTG ATTTTTTTTT TCTCTTGTAC TTACACATCT CATGACCTCA TGTTCCCAGA
ACTTAACACT TAGTTGGGTT CTAGTAGATA TTTTGGGTTG AAAAGATGTT TGCTGTTTTG CATTTTGTTC TGTTTTGTTG
GCTAGCCTGT GAATCTAGCA TTGTACGTGA GAAAGTGCAT TTCAGATTGA AAGCAACTGG GTTTTGGAAA TGAACTTCAA
TAACATATCC CAG

SEQ ID NO:432: (Length of Sequence = 292 Nucleotides)
TTCACCGTGT TAGCCAGGAC GGTCTCGATC TCCTGACCTT GTGATCTGCC CACCTCGGCC TCCCAAAGTG CTGGTATTAC
AGGCGTGAGC ACCGCGCCCG GCCACCATTC ACTAATTTTC AAGAAATGTG GAAGTGTTCT ATATTNCTT CCCACTCCAT
AGCTCCAACA TTGTTGGCTA TTATGAATTT GGCTATTAAG TGATGCCAAC AATATTTAAT GAAAAAAAGA TATAGCAGTA
TAGTTGAAGG AGGAAGCTGA AAGAAAACGG TCCATCNGTG AGGAAAAGGC CC

SEQ ID NO:433: (Length of Sequence = 335 Nucleotides)
TTTTTTTCTC AGCAGAGGAT TTTATTGGTG GTCACCTGTG GCACAGGTTA GAGGAGCCGA AGTGCTGTNT TTGTGGTGGG
GGGGGGACCA CAAACCCCGG CCCTGCCCTC TTGCTTACAT AGGCTTCCCG CCTAGAAGCG CANCATGAAC ATGCCGCTAC
GGATCCGGTT GTAGTCTGGG AGCTGCTCAA TGGGGCCATA TCCAGCCACT GCTGGGGCAC TGGTCATAGA TGTACTTNGA
GCAGATCTCA CGTACCACAC TGGCATCCAC CTCCGCAAAT CCGGCTTTCC CATTCAGCCA GGGGGGNATG CGGGNGGGCC
ATAGGTCAGG AGGCT

SEQ ID NO:434: (Length of Sequence = 390 Nucleotides)
GTTGCTGACT GCTGATTGGA GATGACGTGT ACCCATCCTC TAGACAGTCT GTGCTTTTCC TGTCTTGGA GCTTCCAGTT
CCACCCCCAT CAGTTTTTTT CTGACCACTC CATCTTGCCT TATTTCTCTC TCTTTCCTTT TGACTGGAAG AGTACTCATC
TTTTCTAACA TCTTTTCATA AACTGTTTTG ATTTCACTTA TATTGATTTT NAACGTATAA TGTGCTGGTG TTCTATTTCC
TCAGTTAGAT CAGAAGGCCC CTAAAGACAG GGCTCCATTG GTGTTAAACT GCCATCTTCA AGGTCTGGGA CTTGATTTCN

CTTTTTTNAC CTNCACAACA AGGCACTCCT CTTGCACCCA GTCGGAATTT CAGTGCCTGT GGGTCAAAGT

SEQ ID NO:435: (Length of Sequence = 427 Nucleotides)
TCACTAAACA GTAGATTTAT TTTATGTAGA TTTGTTTTTC TATAAAAATA TATTTATGTG TTCACAGGAA AAAAGTTGAG
TTGGTATGTG GGGGTGACTT TCAGATACAT AATTAGTTAA AGGTTTGCTT ATGAAGTTAG AAGGCATCTT AGCTTTTATC
ATTTTCAAAT TTTTCTTCAT AAAAAAGAAC ACCCTGTGAC AAAGATAAGG TAACTGAGAT TATTATTAGC ACTTTAGAGT
TGAGAGAGTT TGAAATAAAA AGGTTAAGCA ACCTGCCTAA TGTTTATGTA CAAAATCAGT GCTGGAGCCA GGAAGAGAAT
TTGGATTTTC CCAACCCTTG GACAGTTCTC TAGGGACTCA TGCCCACCAA CCATTCTTGA GACTATATAC AATCAATTAC
ATTAAAATGA TATTGACAGT AGACTAG

SEQ ID NO:436: (Length of Sequence = 249 Nucleotides)
TCAAATAACC AGGAGGGGGA CAGAAGATGA TGGCAAGGCA GACTGGGCAG TGTTTTNTAG ACACAGAACA AAGAATCAGA
ATTTGAAAAA AGANGAAAAA CAAATCTNCG CAGCTGCAAC TTTAAAGTAT CACCTTTATA GATGGCAGGG ATTTCCATTA
TGCAAATGGA ATCTAAGATT TCAATGTGNA ATCTTAGAAT GCAGTTTTAC CACTTGCAGT CTNGTATTTG TGGTGGCCAT
GTGGTGAGT

SEQ ID NO:437: (Length of Sequence = 404 Nucleotides)
GTCATTCACC CTAATCCCTC TTTCACCTTC ACAGAACTTT CACACTCCAA TGTACTTGCT GTTTGTAGAT GCTCCTATAA
ACAGAAAGCT CTGGGAGACA GGTGTCTTGT TATTCTTGCT CTCTGTCATA TCTCTGGGCC TATCACAAGT ACTCAAAGCA
TAGAAGTTCA ATAAATATGT GTTCAATGTA AGAAATGATC AGTGATTCTC AAGCTGCAGT GGCGTCAGGA TAACCTAGAC
AGCCTGTTAG CACGGNTCAC TGNNNCCCAC CCCCACAGTT TCAGGTCTGG TCTGGGNTGG GGCCCAATAA TCTGTATTCC
TAAAAGTCCC CAAGCAATGC TGGTGCTGTT CGTCCAGGGA CCATGCTTAA AGAACCACCC GGAATAGGAC TGGTGGACAA
AAGG

SEQ ID NO:438: (Length of Sequence = 337 Nucleotides)
CTGCAACTTA TACCTTCCAT TTACTAAAGT CCCAGTATGT GTCAAAGTAG TTTTCATTCC TCACAGCCAT GTTATGAGCT
AAATATCACT AACTTTCCCT TTCAAAGGTG AAATAAACTG AGACTCTCGA AGATTAACTT GCCCAAGGTC ACCTAGCTCG
TTAGGAGGCA CAGGTGGGAC TTGAACCCAG TTCTTTCTGA ATTCAAAACC TCCAAAATGT CTGTCACATC AAGCTGCTTC
AATGAGATGC TAGAAAATCA GGACAGTGAG CAAGCTGGAG ATAANGGAAG ATATGGAGGA ACACGGGAAG TGTGATCCTC
ACACACATAC CCTGCAG

SEQ ID NO:439: (Length of Sequence = 380 Nucleotides)
CATCGTGTAT GAAGGTAGCC ATTTTGTACA TGTTACCTTG TTAAAAACAA AAGAGCAGCA ACATGTTTAG AGTGGTGTCT
ATAGATAGAA CACTGCTGTT ATGTTTAAGG AAAATTGGGG CGGGGGCAGA AAAGATCAAT ATGACTAGTT AGAAGACTAT
TAAGGAGAAC TTTGTACATG AATTATGGAT GTAAGAATTA GAAAAAAAAA GATGATCATG TTCAGAATTT TAGCTTTTTT
ACAATTGTAG TGGAAAAGAA AACTCCTAGA GTAATGAATC AATGGTATCC TACAAAAAGA GAGGTGCCAA AAATACCATG
AAATATTATA TTAAAAAATT CACACGNATA GGTAGTTATA ATATGTAAAG GCCAGACTTC

SEQ ID NO:440: (Length of Sequence = 335 Nucleotides)
CCTTGAGCTT TTATTGACCA GTGGACTGTG ACTTTTGATG TAATTTTATT TTTGAGAGAG GGTCTTGCTC TGTCACCCAG
GCTGGAGTGC AATGGGGTGA TCTTGGCTCA CTGCAACCTC CGCCTCACGG GCTCCAGTGA TTCTCCTGCC TCAGCCTCCC
GAGTAGCTGG GACTACAGGT GCACACCACC TTGGCTGGCT AGTTTATGTA ATTTTTTGTA TGTCTGTGGA GACAGGGTTT

CACCATGTTG CCCAGGCTGG TCTCAAACTC CTGAACTCAG GTGATCTACC CGCCTTCCAA AGTACTGGGA TTACAGGCAT
GAGCCACCAT AATAA

SEQ ID NO:441: (Length of Sequence = 356 Nucleotides)
ACTAATTGTG TTTCTGCTTC AACCTGCATT TCCAGAGGTG CCTGTTGGTC TGTAATTGGT TCTGGCATGT TTATAGGTAT
TACAAAACCA AGTCTTATTT TGCATTTCAC AGGATTTAAG ATGAATAAAG TGATGTGGTT GTGCTAGGTT AGAGTTGTAC
AAATTATACT CCCATCGCGG ATGGTGGCGT CCCAGGCCTA CAACCTGACC TCTGCCCTCA CGCCCATCGT CACGCGCTCC
CGGTGCTTCA ACGAGGAGCC CCTGACGCTG GCGGGCTTTC AGCAGGGNCC CGGCCAACCT CAGTGACGTG GTGCAGCTCA
TCTTTCTGGG TGGGACTCCC AATCCCCTTT CCCTTT

SEQ ID NO:442: (Length of Sequence = 371 Nucleotides)
GATGATTTTG TATCTTTTTC TATTTATTGA GATAATCAAA TGATTTTTGT CCTTCGTTCT ATTGATGTGA TGTTTATTGA
TCATGTTTAT TGATTTGCAT ATGGTGAGCC ATCCTTGTAT TCCTGGTATA AATGCCACCT GATCATGGTA TATNATCTTT
TTNATGTGCT ATTGGATTTG GTTTGCCAGT ATTTTGTTGA GAATTTTTTC ATCTGTGTCT ATTACGGATA TTGGCCTGTA
GTTTTTTTTG CTGTGTTCTT CTTTGGTTTT GATATCAGGA TAATGCTAGC TTTGTAGAAT GAGTNAGGGA GGAGTTATCT
ACTCTTCAAT TTTTGGGAAC AGTTGCAGAA CTGTTGTGTG TTTTAGAACA G

SEQ ID NO:443: (Length of Sequence = 329 Nucleotides)
TGAACTGCCT TTATTTTTTN ATTTCCCATC CAGAAACCCC AGTGTGATGG TGGAAGCAGC ATGAAAACAA CATCTCCCCA
GGCCTCGCAG TAGAGGCGAA GGGAACAGAG CTGCCCATGT GCCTGTNTCT AAAGACGCCA CCCTCAGGTT GATGTCACCT
GTGGGAGACC GGGTCCACCT ACAGACACCA GGTGATGGTC CACCAGGCCC CAAGCTCCAG CCTGCTGAGT CCCCAAGACA
CAGGCTCATT AAATAGCTTC GTACAAAAAC CCAAGGGTGT CCCTCCAGCT GGTAAAAAAT TGGGCAATTT CTACTTGGAG
GTCTGCTGT

SEQ ID NO:444: (Length of Sequence = 358 Nucleotides)
TTTTTTTTTA AGTACATAGG TCTTTATTTA AACACTGATT TTTTTTTTAA ATATATACAC ACAAAACTTA GTTCAGCAAG
GCTTCATGAT ATACACCAAT TCCAAAATAA AACAATCAAA TGGTCCAGGT GTAGAATGCC AGATTCCTTT TATCATCTGC
GAGGAAAAGA GAAGCAGGAT GAGGAAGAGT GAGGGAAGGC GGGGACAGGC TCTGCCCAGA NGAGCTGCCG CCTCCTGGCA
CAGCAAACGC TCCAGGCCTG GGCCCTGTTC ATATCTGGAG TCGGAGGGAG ACTCCCATCG GCCGCTTTGG GACTGAAAGG
CCCAAGGCTG TCACCAGGTC CCGGAAGAGA GGGAGGCA

SEQ ID NO:445: (Length of Sequence = 302 Nucleotides)
TCAGAACGGT GAGAAATAAA TTGCTGTTGT TTATAAAGTA ACCTGTTTAT GTTATTTTTT TATAGAAGCC TGATCAGAAT
AAGACAATAT TGGATAGAAT ATTCAGGAAT GTCTTGCCTC CAATGTTGGC CCCCCTGTAC TGAGCTCTAA TCTACACTCA
CCTAAAAAAT TATAAAATCA TAATAAAACT GAAAAAGTCA AACTCTCAAT TGCATCCCAG CACAAATATC ACAGNTGNTT
ATTTAAAAAA TTATGTCAAG GCCCTAAAAA GCTAAAATCC NCAGNTCTGC TAATATTTCT CT

SEQ ID NO:446: (Length of Sequence = 367 Nucleotides)
ATATATATAT ATACACACAC ACACATACAT ACATACATAC ATACACATAA CCCTGTTTGG GTAAGGCCTA TTGACAGAAG
CCAGATATCT GGGTGGAAGT TAGAAGATGG GCAAGGAATT CTTATCTCAG AGTTTCAACA CTGCGACAAT GTGGAGAGAA
GTCTCCTGGG AAAAATGCAGA TGCCCAATAA CTTCCAAAAG AATCAGGGAA GTTGGAGTAT TTTTGAGATT TACAGTGTCT

TTACTTCAGT AAAACAAGCC ACAGCAACAT TATGCTCTGC AGAGTCTTCT GTTCACCTTT GGGATGGAAA AGAGCTGCTT
CTCCTAGGGN GGCAACTAAG GCCCAGGACC AAAACTCCCA TCTCCTA

SEQ ID NO:447: (Length of Sequence = 295 Nucleotides)
CTGCAAACCC TTCAGCATTT AGCTAAAGTT ATTTCACAAT TCAATGCTTG TCTTGCACTG TCCTGGTCAT TTAAAAACTG
GTATCTCTTC AATAGCAAAT AGTATCATAA CAGACCACTA AATTTGGAGG GAAAGTGGTT TCTATTGCAG ATGGATGTAA
TTAAAATTGG TGTAAATCAC AGGGTACAGA ATTCTTATCT GGTAAGAATT CTGACTTTTT TTTTAAAGAA GAAAAAATAT
ATCCAGATCT GTATCCACAT GCTATTTAAA TGCTCAGGNC AAAAAGAAGC CACTA

SEQ ID NO:448: (Length of Sequence = 233 Nucleotides)
CAGAATCAGC CCAAATGCCC ATCAATCAAC TGTGCATAAA GAAACTGTGA TATATATATA TCATAGAAGT TCAAACAGAA
AAAATACAAA AAACTTAGCA GAGGATTGTA TCCTTTGCCG TTTATTTTGA TGACCATGCC ATCTTCTAAT CCCCAGAAAA
AAACTGGAAA ACAGAATAAA TATAATTTNC TGATTATNCT TATGTAACAT AAATGGAATA TATATATATA TAT

SEQ ID NO:449: (Length of Sequence = 341 Nucleotides)
ACTTCCTTCC TCAGGCTCCT GTACCAATCT TCAATTCACT TGGGATGTCC TAGTCTAAAA CATTTATTTC ATTTGAAAGG
AAAAATATCA ATTTCTATCT AAATTGGAGT AAGATTCAAT TCAGATGTGT TTATTTACAA AACATAAGTT TGTTATTTAT
CTGTGTTTAA TTTGATCCNG GAACATTACA TGTAAAGAAC ATTCCATGTA AAGAACCAGG CAACTTGGCC AGGCATGGTG
GCTCACACCT GNTAACCCCA GCACTTTTGG GAGGGCCAAG GCAGGTGAAT TGGTTGAGAC CAGGNGGTTC AAGACCCAGC
CTGGGGCAAA TATTGGCGAA A

SEQ ID NO:450: (Length of Sequence = 313 Nucleotides)
TTTTTTTTTT GACACAGTTT CCAGTCCTGG AAACCTTTAG CTAATCTTTA GCATTCCTTC AATGGTGGGA ATGCGCAACA
GATCACCATA GTATTAATAC TCTGTGTAAT TTTATCACTA GAATGGTTAA TTTCCATATC ATAGTAGAGC TGTTGCAGAT
ATTTTGAAAT CCCATTATAC TCACTGCCAC TTCAAGATTA CTGTAGTTGT TAGAACAGCT GCTAGATCTT ATTACTTAAT
AAATTAATAA AGTGTGAATA TAACTATATA ACCATTTTNA AAATGTTTTT TGGATAACTT TCAATATAAT TGG

SEQ ID NO:451: (Length of Sequence = 351 Nucleotides)
GGGCCGGCTC CTGGGCACCC ACCCAGCTCA TTCGCCGAGC GGCTCCCCTC CTGGGGTTGA GTGTCCTGGG CCTGAGTCTG
CAGCCTCAGC CATCTGTTCC CCAACTTGAT CTCCCACTGC TAGTTACAAA CAAATCGCCC GGCTTGTGCA AACCTCCTGG
GCTCAGTCCC CAGTCCCGCG GGGCATCATT TCATTCTTTC CTAGCCTGTA AGGTTTCTCC TGAAAAATCT ATTGTTAGTC
TAATATGAAT TTCCTAATAT GTGACTTAAG GCTTTTCTCT TGCTGCTTTT AAAATTTTCT CTTTTGTCTT TGACTTTGAC
AATTTGGCTA TAATGTATGT TGGAGAGGAC C

SEQ ID NO:452: (Length of Sequence = 363 Nucleotides)
GACAAGGGAG AATTCTTGCT TTACCTATGG ACTGGCTTAA GCCGTGTGGC ATCCGAGGAA TGTTTCAAAT GTGTCTGTGT
TTCTCTTTAC ATTCCTTATT GTACCTCATT GTTCAATTCA CTTTTGTAAA TTCCACCTAA CATTTAATTA TTTTAAATTT
CTCCGTCATG AAGTTATTTT AAGACACTGG AATAAGTGCA GCTTTGTTTA TAACAGCATA GGATTATAAA CAACCTAAAG
AGTCAGCAGT GACATTGATG GCACATGCAT ACAATGGNAT NTTNTGTAGC TGTTAAAATA ATAANGAAGA TCCTGCTCTG
TGTATTTGAT ATGGGAAGGC CCCCCAAGGT CTACAGTTAA GGG

183

SEQ ID NO:453:   (Length of Sequence = 382 Nucleotides)
ATGAGGGAAA AGATGGTGCC ATTGAAGATA TTATCACAGT GCTGAAGACT GTNCCCTTTA CTGCTCGCAC CGCCAAGCGT
GGCTCTCGGT TTTNCTGCGA ACCTGTTCTC ACTGAGGAAT ACCATTACTA AACTATTACT CTTTCTCACC TGATGCTCTT
AAAAGATCTT AGAAACCAAC CATACAGACG AGCCGATGCG GTGAGGAGAA GCGTCAGGCG CGCTTTGAT GATCAGAACT
TGCGTTCTGT TAATGGTGCC GAAATAACAA TGTGAACCTG AGACTGGCCT GCAATGAATA CAGGGGTGTG CGTGTTCAGG
AGGTTTTCTG TTGCGGTCAC CCATGATGGC GGGCCTNCCC ATTTGGGCCA ACTTTTCCTG GG

SEQ ID NO:454:   (Length of Sequence = 391 Nucleotides)
CGTCTGCCTG GTGTGACTGG CTGGAGAAAT AAGTTAGGGA GAATCTAGAT ATGGTTGAAT TGTCATTGCT GCTCAAAATT
TGTTTCTTTG TGACAACAAC AACAACAACA ACAACAACAA CAACAACAAC AACAGGTGAA ATTATCTTGA AATACAAAAG
AACGTCTGTT GGTCCTGAGA GTGAAAAAAG GAATCCTTAA CAGCTTCAGC TTGCACCAAG AGGATTTTTT TTTATCAGCT
TCCCTTCATA AGAGAGGATG GAGGATTTTG GAAGAGACAG AACCTGGGAG AAATTTCAGT GAGCTGCCAC TTACTGGTTT
AACCTACTTC CACAGAAGGA ACCTATTATT GTTNTATTTG GGAATTCAGT AAATGTGGGC CATGTAAAGG G

SEQ ID NO:455:   (Length of Sequence = 282 Nucleotides)
TTGAGTACTC ATTTGAGGAC TGCAGTCATA GATTTAAAGT GTAATCAGTC AACTCAGTGG AATTACTTTC TCCATTAATC
TTAAATTGCT TCAGGACTGT TTCAGCCTAA GCCAGTAGCT GGGTTTAACC AAATTTGAAG ATTTTNCTAG GAGAGTTTGG
CACGAGGAGA GAGGGGCAAA GGCGTGTAAG GCAGTGTTTA TAACAGTGGC CCATGGAATT GATCATGGGT AAAGAGAAAA
CAAGGACATG CGAGGAGGTG ATAAATAGAN CAAAACAAAG CA

SEQ ID NO:456:   (Length of Sequence = 340 Nucleotides)
CTAACTTATG TTTGAGATCT TCAATGAAAT TAGTTACTAA TATTTNGCTT TATTCTTCTC AAAAGATTTA ACATGATAAT
TCTGACCTAA TCCAAAAAAA AAAAATTCAT GGGCCACTGT TTTGCATGTA ATATGTAAGA NCTCACCTTG ATGTTAAACT
CCAACCCTTG GCTGAAACAG GTTAATGATC ATTTGTNGTT ATTTATTTCT ATAAATAGTT TGAAGTTGGC CAGGCCTGGT
GGCGTCTCGC TGTGTCTCCC AGGGTTGGAG TTCGGTGGCG CAAATCTCGG CTTCACTGCA AGCTTCCGCC TCCCCGGGGT
TCACACCATT CTTCCTGCCT

SEQ ID NO:457:   (Length of Sequence = 338 Nucleotides)
ATGAAAAAGT CTCCAGAGAT TATCAGTGGG CGGATGACAT TTGCCCTCTG TTGCTATTCT TTGACATTCA TGAGATTTGC
CTACAAGGTA CAGCCTCGGA ACTGGCTTCT GTTTGCATGC CACGCAACAA ATGAAGTAGC CCAGCTCATC CAGGGAGGGC
GGCTTATCAA ACACGAGATG ACTAAAACGG CATCTGCATA ACAATGGAAA AGGAAGAACA AGGTCTTGAA GGGACAGCAT
TGCCAGCTGC TGCTGAGTCA CAGATTTCAT TATAAATAGC CTCCCTAAGG AAAATACACT GAATGCTATT TTTTACTNAA
CCATTCTATT TTTATAGG

SEQ ID NO:458:   (Length of Sequence = 370 Nucleotides)
GTTTTCTTTC GGAGCTGAAC CAAAGAATGT GCACCCTCTT TCTCTAGTGC TGTGGTGTCT GCTTATTTTT GTATTTGTGC
TTTCCATCCA TCTTCTGTGA TCACAAGGCA TTCTTAAGGT TTTCTAGCAC GACTTGCGGA CATCCAGACT CGTGGGGGGC
CCACCCATGG CTCGGTAAGC CAGCAGCCCA GGGCACTGGC ACTACCATGA GGCACTGCAT TAATTGCTGC ATACAGCTGT
TACCCGACGG CGCACACAAG CAGCAGGTCA ACTGCCAAGG GGGCCCCCAT CACCGTCACC AGGCGTGCCC CACGTTGCAA
AGGAGGAAAA ACAAAATTCC TGGTTTCCGT GTGGGACAGT AAAGCAGATG

184

SEQ ID NO:459: (Length of Sequence = 339 Nucleotides)
ATTTTCCTAG AACTGAAATC ATCTACGGTT CTCAGAGCTA AACTTCCAAA GCTACAGTCA GCAATTTTTC ATCAGAGCCC
AAGGGAGAGG GGCCAGGGTA AAAGAGACGA GACTGTAGAG AGGCATAGAG AGACCAGTAG GAAGAGGGTG GGAGAGGGCA
CTTATTTCTC TCTGTCCTCT CAGTGGGTTA CAAATCAGAT CTGGTGACAA CACTGAGGGG GCCAGGTCAG GGTATGTNGA
TGAGAAATGA CACTGGAAGG AACATCAAAG CCCCAGCTAC AAAAAGAAAG TCATCAAGCC CCAAATAGAA GGGGGAGCCT
CCCAGTGCAC CTCAGAAAT

SEQ ID NO:460: (Length of Sequence = 380 Nucleotides)
GAGCTTTTGC ACTGCAAAAG GAACAGTCAG CAGAATAAAC AGACAGTTAG AAGTACTTCC CTATGTAGAG ACACACTCAA
GTGAAAGGGA ACCAGGCTCT ACCACTTGAA ATAAGGAGTA TCAAGGAACT TGTGGACAGC TTTTAAAACT ACCACTGGCA
ACTAGGTCTT GAGGTGGATA AATGAAGAAA TTTGGGGAAT CTCACACTGG AGATGTTTGA TGTAGGTAAA TGANCTGAGA
TTCATTAGGT GTGAAATAAT GAAGTGTATA TATAGTTCTG CATATACATG CCTGGGGAAG GTATAATATT CAGAGGCATA
CTATCACTCA ATTTGTATCT GCTGTGGGCC TCAGACAGTA CAGGGGCAGT GTTTGCATTG

SEQ ID NO:461: (Length of Sequence = 317 Nucleotides)
GTCATTAAGA AGCCTTTATT GGGTTATATT CAATTTGACC TCCCACCAAA TTAAGCGGGA AAAAACAAAA AAATAAGAAA
TCCCAGTAAA AGAGCCCCTC AAGATTTCAT AAACTACAAA CTAAAGCTGC TAGTTAATAA GGAAATGGCA GAATTTTCAG
AGCTGTATAA TACAAAAATT CCTGTAATTT AAGCAGATGT TTTCCTCACT GATGACAAAT CTTCCAACAC AATGTGAAGT
TATGCTACTT GGGATATTTG TAGGCAAAAC CATTTTTTTT TTGTACAAAA ACAAAAGCAA GGGACCNTGG AAAAAAA

SEQ ID NO:462: (Length of Sequence = 261 Nucleotides)
AAAAAGGCCA TAAATCCTTN CCCTCGTGGA GCTTACCTTC TAATAAGGAG AGACAGAGGG TNAGAAACAA ACAAACAAAA
ATATGTNAGT TAACACAGAG TGTTGGAGGG TGTCAGGTGC TATGGGAGAA ACGTGGAGCA TGTCAAGGNG AGAGCAGGCA
AGAGGGCATT CTGGAAAGGC CTAGGANGAT GGTGACATTT TACCTTCATA TCCACCAACC CCCAGCACAA AGCATTTTCC
AGAGGNAGNC AGAGGAGGGC A

SEQ ID NO:463: (Length of Sequence = 387 Nucleotides)
ATACAAGTAC ATCCAGGAGC TATGGAGAAA GAAGCAGTCT GATGTCATGC GCTTTCTTCT GAGGGTCCGC TGCTGGCAGT
ACCGCCAGCT CTCTGCTCTC CACAGGGCTC CCCGCCCCAC CCGGCCTGAT AAAGCGCGCC GACTGGGCTA CAAGGCCAAG
CAAGGTTACG TTATATATAG GATTCGTGTT CGCCGTGGTG GCCGAAAACG CCCAGTTCCT AAGGGTGCAA CTTACGGCAA
GCCTGTCCAT CATGGTGTTA ACCAGCTAAA GTTTGCTCGA AGCCTTCAGT CCGTTGCAGA GGAGCGAGCT GGACGNCACT
GTGGGGCTCT TGAGAGTCCT GAATTCTTAC TNGGGTTTGG TGAAGATTTC ACATACAAAT TTTTTGA

SEQ ID NO:464: (Length of Sequence = 397 Nucleotides)
GTTAGCCGTG GGCTGTGGGC GTCGCCTGAA CGTACCAGGT ATTGTGGCTC CATTGGCTGA GGATGCTTCT CCAGCGAAGG
AGGCAGGGAG CCGGGGAAGT GGGGTGGGGT CGCGACACCG ACAGCAGCTG CCAGACCAGC CATGCTGCGC TCAGCTCCCT
CAGGCTGTCA CTCTTAATCA TCATGTCACT ATCTCTGGGG CGTGTCAGTC ACCATCAACG ACGTGTCCCC CAAGCTGCAG
AGGACGCAAA TCCAGCTCTC CAAGAGGCTC TGTTGGCCCT CTCCACATGG GCTTNAGGGT CAAGGGTTGG GGGCACGTTC
GGACCGNCCT TCCTGNCTCT TTNGAAGAAG ATCCTCCAAN GTNCCCGGCT TCAGCTTCTT CCGGGCCTCT TTTGGCA

SEQ ID NO:465: (Length of Sequence = 320 Nucleotides)

185

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GACGACATTT ATTCCTTTTC CAAATGTTAC AGTAAAACCA GGTGGAAGAG AATGGTTTTA GCAGTTAGAA AAAAAAAAA
AGTACAAATC TGGGGTTTGG CCATTAAAAG TTATTTACAA CAGTGGGAGA AAAAAAGNCA AGAAGTTGTT TCACATTACA
GACCTCCCCC CACCCCAAAG CCTAATACTT GCTTACCAAG TCAAAAAAGA GACACAGTTG ATTCACAGGC TGGAGGTTTG
AACTTGAGTA AGACATTTAT AAAAACCTAG ACGGGGCAGT GTCCTNCCCA GCCCAGGTGC CACTTAGGCC AGCACAAGGG
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SEQ ID NO:466: (Length of Sequence = 352 Nucleotides)
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CATTGTATTT CCCTTCTTCA AATTAATTAC CTACCAAAAA ATGGAAAAGA ATTTTACATG CACTTTAAAA TAGTAAAATG
GAAAGTGAAT TTTTAAAATA TATGCATTAA AAGTTTACTT TAATTTCCAG TGGGACTTCC TTTATGAAAT TTTCCATAAC
CTCTTCCTGG AGTATTACAA GATCTCCAAC ATCTCATAAA CTAATTGTGA TATTAGTGGA ACCATAAGCA AATGTATATT
TTTAGTGGAA ATAGATTATG AATGAAAGCC AAGCACCTTA CTTTAAAGCC AAAATATGAG ATTTTCCATT AAAAACCATT
GGTCCATAAT AGGGAGGGGG GTTTTTTAAT TT
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SEQ ID NO:467: (Length of Sequence = 352 Nucleotides)
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TGAAAGGCAA AAAATAAATA AATAAAAATA AATACCATTT GCAGAGACAG AGAAACCATC AGAAGAAGAC AAGCAAGGTT
GTTTGAATTA CTACGCCTAG AATTTAGAAT AACTACTATG ATTAAAACGA AAAAGGCTTT AATGGATAAA ATAGATAGCT
CCTAATAACA GATAGTAATA ACATATGGGT AATGTGAGCA GAGAGATGGA AATCTTAGAN CAACAACAGC AACAACGNCA
AAGCGTTAGG GATCAAAAAC ACTGTAACAA AAATTAAGAN TCCCTTTTAT GGGCTTNTTA ATAGNCTNGG ATACAGGTAA
GTAAAGAATC CCTGTGCTTT AAGGAGCCAT CA
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SEQ ID NO:468: (Length of Sequence = 336 Nucleotides)
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TGACATCTGC ATCTTACATT ATTAAATGCA AAGGAATATC AAAGACTCCT CTGCTAGAAC CATTTTTATT CATAAAGTCA
CATTATCATT GTAGAAGTCT TGTAAAAATG CTACCTGAAA TGAATTATGT CCGTCTTCCC ATCTGGCTTA CAAAATTCTT
GAGGAAGCAT CTGCCTCGTA GCTCTTTATC TTTCTATTTC CTACTACAGG GACAATGTAT ATGGAAAGAT AAATGTGTGT
AGGTGTATAA ATTCTCAATA AATATTTGCT GAATTAGATT GTACAGTTGT TATCTTTTAA GNTTAACTCA TCCTGAGGTA
CATTTTATTA TTGGGC
```

SEQ ID NO:469: (Length of Sequence = 156 Nucleotides)
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GACCGATGTA GAATTCTGTC TGGAGACGTT CTCCCCTTCA ATTCAATGGG AAGGNTCTTT TCTGGCATGA NCTCTCCGAT
GTCTAATGAG CTCTGAGCAC CATCCATAAG CTTTNNCACA TTCTTTANAT ATAAAAGGTT TCTCTCCACT GTGAAT
```

SEQ ID NO:470: (Length of Sequence = 350 Nucleotides)
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TTCTCATGTC TGAATTTCAC ACGCACAAGT CTGAAATGTG AAGGTTTCTT AATGTTGGTT TTATGGTTCG TGTAAGATTT
TTGGGAAATG AAGGGCTCTT CATTAGGATA AAATGGTCTT AACTTCCCAG AGAAGAATTT CCTGACAACG TGGCTGAAGT
TAGATACAAA TGTTAATATA GAAGANTGCT TTTATTTGAA TTTCTAGCAA ATGGTTTTCA ACTACTTTAA ATATGACCNA
CTTGAAAGTA TTATTCCTNT TTTAAAACTA CTTTTNATGT ATAGATCTAA GGTCTGCTTG AAGCTAGTAG GTTAAAGTGT
TTGAGAAATA AAGGCAAGAT TNTTNCNTTA
```

SEQ ID NO:471: (Length of Sequence = 270 Nucleotides)
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GGAGCAGGGC TGGGAGTCAG TGGGAGATTG GGAGTCCAAG TCTGGACATG TTACATATGC TATGTCTATT ACAGATCTGA
GTATAAATGT GAAGTGGAGT TTTACCACGT GATTCTGAAG TTCAGAGAAG AGGTACAGTT TAGAGATAAA GATTTNGGAG
TCACAAATAT AAAGATGTAT GACTTNATGA GATTACCAAG GAAGTGGAGA TTAATAGCAA AAAGAAAAGT TTCAAGCTTC
AAGCCCCGAA GCATTCTAAT GTTTACAGCT
```

SEQ ID NO:473: (Length of Sequence = 345 Nucleotides)
TTTATTGTAG TTCAAATACA TAAACTGAAC ATTCAAACAT CTTAAAATTA AACTTTAGCA ACAAAGTTTA ACATTCAAAC
AGGAGTATAG TTTACAAGAA ACACCCAGAA AGGTAATTTG TTGTCTAATC CAGAATATTG ATAAAGATCA CTTAATGGTG
AATAAAATAT GTTTAACCAG TGGTTCTATT CTGGCCAACA TGTTAGTTAT GACCGTGGTT CCATACCTGA GAAGAAATTA
CTACATAAAT CTTCTCTTAG GCTAAACAAC ANGACTCGGT CTATAATTCA GAGGGGNTAA TCAAAGCACG TAAGGGTACC
AAAATAAAAC TAATCTGATC TTTAG

SEQ ID NO:474: (Length of Sequence = 433 Nucleotides)
CAGAATTAGA GCTGTACCCC AAGGGGGAAT TCTGTCCTAG GAGACAGTGA GTNCTAAGTA CACTCTGGAC AAGCACCAGA
CACAGAAGCT GCCTCAGTTT GTGCTCCCCC TGCAAAGCAG AGCCTGAGAC AAGGATTTGG GTACAAGGAG TTTCACTCAA
TATTATATTT CCAAGATGCA CCCATGCTTT ATATGGCTAT AGTGCATCCA TTTTACTGCT TTATACTTTC CATTAGGTGA
CTATATTAGT ATATATTTAT AATTCCTAGG TCTTTTTGTT CTCTTATTTG TTAATAATTA TAAACTCCAA GCCCATTGTG
GTAGATTGCT ATTTCTCAGA GATATTTTCT GCTCCTTCCT GGGGGACAAT AATACTNTTC TCCCATCAAT GGCAGATGTN
GGGCTTGTNA CATTTTCTGG TCAATGGAAT GAG

SEQ ID NO:475: (Length of Sequence = 427 Nucleotides)
GATATGGTTT GTGTGCCCAC CCAAATCTCA TCTAGAACTG TAGTTTCCAT AATCCCCACG TCGTGGANGG GACCTGGTGG
GAGGTAATCG AACCATGGGG GTGGTTACCT CCATGCTGTC CTTATGATGG TGAGTTCTCA TGAGATCTGA TGGTTTTATA
AGGGACTTTT CCCCCCTTTG CTCTGCACTT TTCCATGCTG CCACCACGTG AAGAAGGATG TGTTTGCTTC TCCTTCCACC
ATGATTTAAG TTTTCTNAGG CCTCTCCAGC CATGCTGAAC TGTGAGTCAA TTAAACCTCT TTCCTTTAAA AATTACCCAG
TCCCAGGNAT GTCTTCATTA GCAACCTCAG AGCAGATTAG NCACAATTCC ACAACTTGGA GAATNGGTGT TCAAGTTTCA
CTCTGGCCTT NAACAACCCA AAATTTA

SEQ ID NO:476: (Length of Sequence = 351 Nucleotides)
CGCCGCTAGG GCGGCNGGGG GTCGGGACGC CGGGCTAGGG GCGCGTCATG TGGCCGCTCA CGGTCCCGCC GNCGCTGCTG
CTGCTGCTGT GCTCAGGCCT GGCCGGACAG ACTCTCTTCC AGAACCCAGA AGAGGGCTGG CAGCTGTACA CCTCAGCCCA
GGCCCCTNAC GGGAAATGCA TCTNCACGGC CGTNATCCCA GCGCAGAGTA CCTGCTCTCG AGATGGCAGG AGTCGGGAGC
TGCGGCAACT NATGGAGAAG GTNCAGAACG TCTCCCAGTC CATGGAGGTC CTTNAGTTNC GGACGTATCG CGACCTCCAG
TATGTACGCG GCATGGAGAC CCTCATTCGG A

SEQ ID NO:477: (Length of Sequence = 333 Nucleotides)
GGTCTCACTC CGTCATCCAA GCTGGAGTGC AGTGGTGCAA TCCTCAACTC ACTGCAACCT CCGCTCCCGG TTTGAGTGAT
TCTCATGCCT CAGCCTCCCG AGTAGCTGGG ATTACAGGCA TGAGCCACTG TGCCCAGCTG GGATATAGAA TCTAAGAGTT
GATTGTGGAA AACACGTGAA TCTATTGCGC GCATTTNTCA TTTAGCAAGA TGGCAGCAGT CCAGCTGTTC TTTGCAGCTG
GAGATGAACT TTTAAAAATC CCCTTCACAC TTAATGTACT GACCGAGACA GAAGTACCTG AAAAACAGCT NTGCATGGCA
GGCCCGGCAA TAG

SEQ ID NO:478: (Length of Sequence = 458 Nucleotides)
ACATGTTAAA ATAAGGTAAT ATGAAATAAT CTAAAAAAAA AAAAAGTGCA GAACCAAGAC CTCTGTGATA ATCCTATTTA
AAAAAATAGC TACAATTTTA GTTAGAATGT TTCCCTTATG AGAAAGCATT TTCTGCATAA CTTTTAATGT ACTGACCTTT
TCCAAGCTTG CTGAGCTGGC CTTTGTCTCA ACTCACTTGG GACACCCTTC CCTGTGCCTC ACCAGGGCCC ACCCCAAGTC
CCAGTTTCTC TAGGGGGTCT CTCGGGACCC CTTGAATCCC TTTNCTGATT TGTGCTGCCT TTAGCAGNCG GAATGGGCTG

GCAGACCACC CTACAINCTC CTGTGTGTGG GGACACTGTC AGGNTGTCCT CCCTGCATTA GNCTCTGCTG AGTTTCCTAC
CATGTGNCCA GGATGGNGTC CATAGTCGGG GCAINAAGGA CTTAGGATGG GCCCAGTC

SEQ ID NO:479:   (Length of Sequence = 360 Nucleotides)
GCATCGTATC TNCTTTAAGA AAAACACTTC TTCAAAATCC TACACTATGA AAAACTGTCT TCAGGAATTG TTTATTTGGT
CCGTTGATCT AGTGAGGCTG AGTTCTTAAA TCTTTCACCC CCAAGTTAAA AATTGGAGCA ACAAAACAAA ACTCCAGCAA
GGCATAAATA AGATATTAAA GTGCATATAT ACAATACCAG AAAAGTTTAG ATTGGGAACA GCAAAAATTT CTAGTGCAAA
AACTGCTTTT GCCAGCAAAG CTCCCTCTCT GGAATCAAAG GGCTACAGTA AAAGTTAAAA TTGGAACAGG NTTAAGCAAT
GTCTGTCTTT AGTCACAAGT NAATATATGT GCATGCACCC

SEQ ID NO:480:   (Length of Sequence = 322 Nucleotides)
GAAATTAAGT CTAAGCAAAA AGAAAAATAA AATGACGAGT TACTGGGTGC AGCACACCAA CATGGCACAT GTATACATAT
GTAACAAACC TGCCCATCAT GCACATGTAC CCTAAAACTT AAAGTATAAT AAAAAAAAAA AAANTGAAAA GCTTCAGCCA
GAGGTCACAA TGCTCACAAC TCATTGACCA AAACTATCTC ATACCCGTNT TAGAGCANGG NGCAGGAAAG CAAAACCATT
CTTCTTACTG TTCACTGGNA TACAAGTTCC ATGAGGGGAT GCAATTININ TCTTGGNCAC TCCTGTGTCC TCAGGGTATA
GG

SEQ ID NO:481:   (Length of Sequence = 369 Nucleotides)
CCTGGGCAAA GCATTGATCT GGTAGCCTTG CTCCAGAAGC CTGTTCCTCA CAGTCAAGCC TCAGAAGCCA ACTCCTTTGA
AACTTCCCAA CAGCAGGGCT TTGGCCAAGC CCTTGTNTTC ACAAATTCGC AACACAACAA TCAGATGGCA CCAGGGACTG
GCAGCTCCAC TGCCGTCAAC TCCTGTTCTC CTCAGAGCCT GTCATCCGTC CTTGGCTCAG GATTGGAGA GCTTGCACCA
CCAAAAAATGG CAAACATCAC CAGCTCCCAG ATTTTGGACC AGTTGAAAGC TCCGAGTTTG GGNCAGTTTT ANCACCANCC
CAAGTACACA GCAGAATAGG TACAAGTCAA CCCTACAACT ACTACTTCT

SEQ ID NO:482:   (Length of Sequence = 255 Nucleotides)
GAGAGAATCT CGCTCTGTCG CCCAGGCTGG AGTGCAGTGG CGCAATCCCG GCTCACTGCA ACCTCCGCCT CCCGGGTTCA
AGTGATTCTN CTGCCTCGGC CTCCCCAGTA GTTGGGATTA CGGGTGCACA CCACCGCACC CGGCTGATTT TTTGTATTTT
TGGTAGAGAT GGAGTTTCAC CATGGCTGGG CTGGTCTTGA ACTCCTGATC TCAGGTGATC TGCCCGCCTC AGGCTACCAG
AGTNCTGGGG TTACA

SEQ ID NO:483:   (Length of Sequence = 353 Nucleotides)
CTGGATAATC AGGGCCATGT GCTTTAACAG GATGTAAAGG GGAAGCTCAT GATTAAACAT GGGAAATATG CAGCAAATTG
CAAGACCTGA GCTTAACCGC ATAATTAGAA CATAATTTTN CACTTCTTCC AGAGCATCAG CCAAGCAAAG GACTGAGAAA
TCTGCAACCC AATTGTCCTA AAAAGAAACT TAGGCTTCAC ATTTGTGACA TAATTTCTTT TAAAATGAAT ATAAAATTTT
ATTTTTNATA TTTGTAGAGC ATAGGATGAT TGAAATCCAG TTGTTGTTTT ATCTGACCTC CATATCTAAT ATGGCTAGTG
CCGTTACTAC TCTACAGAAC GCGCAATAAG TCA

SEQ ID NO:484:   (Length of Sequence = 371 Nucleotides)
GACCCAGAAA ATGGAGCTAG CTACATTTCT CACACTTACT GTCATAATTA CATGTTTATA TTCTATTAGT TGTAATTATT
TTTCACCTAT CCTCTCATTA GAATGTTATA CCTATAGAGC AGATACCATT CCAGTTTTAA TTTTTTGCCC CGACTCCTAG
TAAGTACGTG ACCTATTACA GGGAACTTAA AACAAACAAA AAGTCTGCTG AGTCTGGGAT GTTTTAAGGA TCGAAGGAAC
ATGTTGGTCC AATTTGCCTT CACAGAGGGT TACCTCTGCT TTTCTACCGA ATGTGGAATT GCTCCCATGT GGATTTTNAA
GGAATTCCAG TCTACCCTCA GGGGAAGGNC CACATGTAAT GCCAGAGGTC T

SEQ ID NO:485: (Length of Sequence = 376 Nucleotides)
GGTCCGACGC TGTGTCAAGC TCTGCACCGG CCATGAGTAT GCAGCCAAGA TCATCAACAC CAAGAAGCTG TCAGCCAGAG
ATCACCAGAA GCTGGAGAGA GAGGCTCGGN TCTGCCGCCT TCTGAAGCAT TCCAACATCG TGCGTCTCCA CGACAGCATC
TCCGAGGAGG GCTTCCACTA CCTGGTCTTC GATCTGGTCA CTGGTGGGGA GCTCTTTGAA GACATTGTGG CGAGAGAGTA
CTACAGCGAG GCTGATGCCA GTCACTGTAT CCAGCAGATC CTGGGAGGCC GTTCTCCATT GTAACCAAAT GGGGGTCGTC
CACAGAGACC TCAAGCCGGA GAACCTGCTT CTNGCCAGCA AAGTNCAAAG GGGCTT

SEQ ID NO:486: (Length of Sequence = 396 Nucleotides)
TTGATATTTG TGTCTAATTC CAGCTACTTT GAAAGCTAAG GCAAGGGGAT TACTGTATTA ATAAATTCTC ATGCTGTTAA
TAAAGACATA ACCAAGACTG GATAATTCAT AATGAAAAAG GTTAATGGCC TCACAGTTTC ACATGGCTGG GGAGGTCTCA
CAATTATTGG AGCAAACAAG AGACTTTGTT CAGGGGAATC TCCACTTATA AAACCATCAG ATCACGTGAG ACTTTTTTGC
TATCATGAGA ACAGCATGGG AAAATCCCAC CCCCATGATT CAATTACCTC CCACAGGGTC CCTCCCAGGG ACATGTGGAG
ATTATTACAA TTCAAGATGA GATTTGGTTG GGGACAGAGA GGCCAAACCA TATCAATTAC TTAAGGCTAG GGGTTT

SEQ ID NO:487: (Length of Sequence = 375 Nucleotides)
TGATTAAAAT AATAGAGTTT AGTAATATGG ATGAATATAA GATAAATATT TAAAAAGCAG TTGTATTTTT ATAGCCCAGC
AAGATAAAGT TCAAATATGT ATTTTTTATA AAGATGGATT TACAATAACA TCAAAAATTA AAATGCACCT TGAAATAATA
AAGACATGTA AACCCTTTTA TGANGACAGA TTTTTTAANG CATTTTTAAA AATNCTTTTT CATTGACAAA TAATTATCCN
TATTTNTGGG GTACACAGTA ATGTTTCAAT ACATATAATA AATAGTGATC AGATCAGAAT AATCAGCTTA TCCATCATTT
CAAACACTTA TCATTTCTNT GTGTTAGGGG CCATTCAACA TCCTGCTTCT GGCTA

SEQ ID NO:488: (Length of Sequence = 323 Nucleotides)
CACTGCATTA ATGATTGGNT TAACAGTATA TAAACAAGGG CCATGGTTTT TTTTACTAAA GTAGGTCTGA AAGATCAATA
TAAATACTAA TGGGGGCAGG GAGGAGTGTT TTATACCCCA AACTCCAATA TTCCAGCTCT GTGTCCTGTC CTATTATTAT
AATTTGTAAA AATCTTAACG ACGCAGTGAT TCGAGTTTTC GTAACTTCAA TGATGTGTTA GAGGACAATG CATCTTGGTT
TGAAGAATTT GCTGTATCCG AAGGCCGGAA AAGTACTCGA CCACGATGAT TAAATACATA AAAGGATGGG TGATTCCTTA
CCG

SEQ ID NO:489: (Length of Sequence = 326 Nucleotides)
TTACCTTTTA CTCTGATCAT AATCTCCCAC CTGTCTAAGA GGTTATTTAT TCCTTATTTA GAGGGCCTCT ATTGCCATGT
GCCTGGAATT ATTATATGCT CATCACTTTA TGAAGAATAA AATTTGTCTT TCCTGCTTTA AAGTTACATT CGTTCTTCCG
CTCAAATCCT GATCTGGTCC ATTAAAGAGT GTTCGCAGAC AAAGTTTCTG AAAGATTAGA GAAGAATCCC CCCAAGATT
GCCCCAACAC TGAACTACAG ACAAACACTA TTTTATTTAA ATAAGGNGAC AGCTTTCTAA AAGTATACAT TCCTCTAATA
AAAATA

SEQ ID NO:490: (Length of Sequence = 186 Nucleotides)
CTCAGATCCA TCAAGATGTG AAACTCGCAA GTTGGTGCA GAGAAGGTAC ATGGGTTTCC TTCTTTTCTC ATCTGTATTC
CCTTTTCTGC AATTATTTTC TTTGCCACAT ACTAGCCAGC AAACCAGGCA CCTTTGCCAG AGCCATTAAG CTACAAAAAT
ACTTAATATT TTAATTTGAA CTCTGC

SEQ ID NO:491: (Length of Sequence = 347 Nucleotides)

189

CCTGTACTTG TCGTCCCTCA TTCACTTAAT TATGATACTT GCCTGGCATC TTGCAGGTTT CTGATGCTGT TACCCCAGTA
TAGACCAAGT GCAGACAGAA TTTCATTTCT GCTTTATTAA GGCACAGTCT TGAGAAACCC ATTGGCTTCA CACACAATTA
ATTAATTTNT GGCAACAAGC TACTATATTG GCTTGCATGT CACTTTCACC TCTCTGGGCA TTAGTTTNCT CTAATATTTA
TAAAAGAAGG ACATGACTTT CTAAGGTTCC TTGCAGTAAT TATGCAGTTC TATTCTAATA GATGCTTAAG CATAAAACCC
ATTTTAATAC TGTCCCAAGG ATCCAGG

SEQ ID NO:492:   (Length of Sequence = 320 Nucleotides)
GAATTTGGNT CCAAAGTTTG GACATTGCAT TTCATTAATA CGTCCCTTAA GTTTATTTTA ATCTGTATTT TCCTCCTCCC
TTTTGTGTTC TTTGTAATCT CTTTTTGCTG TTGTTTTCGG TTAAAGAAAC CATGTTTTTT TCGTCCTGTG AGTGGCTCCT
GTTCAGAATT TTACTGATTT CATCTGCTGG TATCATTTAG CATGTTGCTC TGTCCGCCGT AGTACTTTAA ACTAGACGTT
AGATCTAGAG ATGTGATCTA CTTCGGTAGG ACTTTGTCAA GAATACTTGT AAGTAGGTAT TTAGGTACCA GGGGNCACAT

SEQ ID NO:493:   (Length of Sequence = 339 Nucleotides)
TGCCAAGTTT GCTGGAACAT TATCAGATGG CTTAGGGAAG ACGATGGACA ATCGGCATCA GTCAGAGCGG GAGTACATCA
GGTACCATGC AGCCACAAGT GGTGAACACC TTGTAGCCGG CATCCATGGC CTGGCTCATG GTATCATTGG TGGACTGACC
AGTGTTATAA CTTCGACAGT GGAAGGTGTG AAAACAGAAG GGGGTGTCAG CGGTTTCATA TCTGGCCTTG GAAAAGGGCT
TGTTGGCACT GTAACCAAGC CANTGGCAGG CGCCCTGGAT TTTGCATCAG AAACAGNCCA GGCGGTGAGA GACACAGNCA
CACTTCAGCG GCCCCAGGN

SEQ ID NO:494:   (Length of Sequence = 366 Nucleotides)
GTAGGCCTTT GGAAAGTAAT TAGGATTAGA TAAAATCATC AGGGTGGGGC CACCATAATG GGGCTGGTGG CTTTATAAGA
GGAAGAGAGA CCTGAGCTGA CACGCATGTN CTTNCCCTCT TGCTATGTGG TGCCCTCAGC CATGTTAGGG CACAGCAAGA
AGGCCCTCAC CAGATATTGG GGTGGTCTTN GACCTCCCAC CCTCCAGAAC TGTAAGAAAT AGATTTTTTT ATATATTACC
CAGTCTATGA TATTCTGTTA CGGNAACAGN AAACAGACTA AGACAAGCTT CTTAAACAAA TTGANAATAG AGTTTTAAGA
TNCAGACTTT CATTGCCTTT AACAGGGGCC AAGAATATCT ATTTCA

SEQ ID NO:495:   (Length of Sequence = 384 Nucleotides)
CGAGGAAGGC AAGAAGCGCA GGGGGTGGCC CGCNTGGCGT CGGTGGCCTC CGCTCCTGCT CGCAGCCCCT GTGGTCAGAG
CTGGATACAA GATTCAAGAC CCTTCTNTTG CTTGTNACCC GCTCCAGGTT GGAGCCACAG ACACCCACCG CCACCCCGGC
TGGGTCTGCN TCCTTTCCTG TGCCTTTCCC TCCAGAATGC GGCCTCAGAC CTAGAAGCTC AACCCCCCTA TGAGGGCCAC
GTCCTGGGGT AGCTCCTGAC CTNCGACCTT ATGTCCAAAT TTCACACCCA TGGTTTTTCA TTTGACCCGG CCCCTTCTCG
CTCATAATGA CAACNAGCTT CCTTTGAGAG GGATCAGAGN CCAATTGCAC AAGGAGGAGC CGCT

SEQ ID NO:496:   (Length of Sequence = 342 Nucleotides)
TACCTTAGTA AATGCAATTT TCGAACAGGC CCCCATCTTC AACTGGTATA GCATCTTCCA CACCCTGTAG CCTTCAAACA
TCACCTGTTA AAATACTGCC CATTCCATGT CATGTATATC TGCCCATTTA TGGGAGCAGT GAGTGGAACC CTGACAGTGA
CGGACTTTAA GCTGTACTTC AAAAATGTCG AGAGGGACCC GCATTTTATC CTTGATGTTC CCCTTGGAGT GATCAGCAGA
GTGGAGAAGA TTGTGNGCAC AGAGCCATGG AGACAATTCC TGTGGTATAG AGATAGTGTG CAAGGATATG AGGAACTTGC
GGCTTGCTTA TAAAACAGGA AG

SEQ ID NO:497:   (Length of Sequence = 273 Nucleotides)

190

GATTTATTAA GTATCCCCGA AAATATAAAC ACAAACCAGT AAAAAACAAA ACCGTAAAAC GTCAGGCCTG GAGCTGCAAT
AAGACAGAGA CAGGAGCAGC TCACACGTGG CCTAGGTGGG GAGGACGAGG CCATAAATAC TGCAGGAGGG CGGCAAGGGA
GCCCTAGGGC GAGGGGAAAG CAGGGTGTCG GCAGCGAGAT GGNTCCNGGG GTTTAGACAC TGCTGGCTTC GGNCCCGGCC
GGCACCANGA CTCTCACTTC CAGCTGCGAG CAG

SEQ ID NO:498: (Length of Sequence = 319 Nucleotides)
ATTCCCAAAA ATAGAGTCTG GACCTCTTAC CGCTACAAAT TCCAGGTTCT CAGGTACAGC CTGAGAGTAT GCAGATATAA
TACACCACAG ATGATTCTCT CCCTTTTTTG TTTTTTTTTT TTTTTTTTTT TTTTGAGACA GAATCTCATT CTGTCACCCA
GGNTGGAGTG CAGTGGGCTG ATCTCGGCTC ANTACTTCTC CCGCCTCCNG GNTTCAAGCA ATTCTCCTGC CTNAGCCTCC
CGAGTAGCTG GGNCTACAGG NGCACACCAC CATGCCCATC CAATTTTTGG ATTTTAAGTA TAGTTGGGGT TTCACCATT

SEQ ID NO:499: (Length of Sequence = 408 Nucleotides)
GAGAAATACC TAATGTGAAT GACGAGTTGA TGGGTGCAGC ACACCAACAT GGCACATGTA TACCTATGTA ACAAACCTGC
ACATTGTGAC ATGTACTCTA GAACTTAAAG TATAATAATA AAAAAAGAGA ACCTTTAAAA AAAAATAGAC TGCCAGATAG
ACTAATAAAT AAAAAAGAGA GGTTGAAATA ATCATAAATG ACTAAGGGGA TGTTACCCCA CAGAACTACA AAAAACAAAC
AAAAAAACCT CAGAGACTAC TAAAACACTC CTATGCACAC AAACTAGAAA ACCTAGAAGA AATGGGTAAA TTTCTGGAAA
CATACANCCA CCGAAGATTG AACCAGGGAG AGATTAAAGC CCTGAACAGA CTAATAATGG NGTTTCAAAA ATTGAATCAG
TAATAAAA

SEQ ID NO:500: (Length of Sequence = 474 Nucleotides)
TTTTATTTTT TTCACTGTTA CTGTTTTTNA TCTTTGATTG ATAAAAATGA AAATGCCAAA ATGAGGGTTA GCTTAATTTA
AAGTATAAGC GTAGTTAGCA GCTTTTNCTA ATCACTCCTG TCCATTTAAA AAATAATCCT CATAGGAGTA TAAACAGAGG
AAGGAGAAAT GGAGGATGGG CTTAAGAGAA AGAGTATTTC ACAAATGTCT GCATAGCAAA TTCAATTCAT CTACCTAGTA
GCTCCTTCCG TGTTAACCTA CAGGTGTTCT CCCCTCCAAA AAAAAGCATC TTTTAGGAAG AAACCACCTT AACACTACCT
TTAGANGATT GAACTTCCAG GGATAGGTTG TTTGAGAGAA TCACCAAAAG CCATTTTTAA ATGAATTTTT AAATTACGGC
TTTCTCATTC CTTATAATAG TGTAGCAGCC ACCTTCCCTC TACTATGGAA CTTTTAACCA ATAATCCAAG TCCT

SEQ ID NO:501: (Length of Sequence = 378 Nucleotides)
GTGGTGGCGG GCGCCTGACC TCGTGATCCG CCCGCCTCAG CCTCCCAAAG TGTTGGGATT ACAGGCGTGA GCACCGCACC
CGGCCCTTGT GTACATTTTT ATAAGAGAAT TTTTTTAGCT AGGAGTTCAG AATTTTTAAA GTACCATTTG AATGATCTTA
ATTTTNCTTT CATGACAACA CATTCCAAAA TGAATCATGC TTATGTACTA AGAGGGAAAA TGTATTTAAG NTAAGGGTGA
GAGACTTAAG TTATAGGTGA CCTTAGAGAC CTAAGGTGAG AGACTTGACA CATGGAAGGA GTAACATTAG GGTCTACCTC
TACCTCAATT TAGTTAGCGA TTTACTACAA TTTCAGAGCT AACAAAGTA AAAATAAA

SEQ ID NO:502: (Length of Sequence = 448 Nucleotides)
TTTTGGAGAT GGAGTCTTGC TCTGTTGCCC AGGCTGGAGT TCAATGGCAC AAACTCGGCT CACTGCAACC TCCGCCTCCC
AGGTTCAAGC AATTTTCCTG CCTCAGCCTC CCGAGTAGCT GGAATTACAG GCACACGCCA CCATGCCCAG CTAATTTTTG
TATTTTTAGTA GAGACGGGGG TTTCACCATG TTGGCCAGGC TGGTCTCAAA CTCCTGAACT CAGGTGATCC ACTCCCTCGG
CCTCCCAAAG GGTTGGGATT GCAGGCGTGA GCACCACGNC CAGCCATGAT CCTTAAACTT GTTTTAAGAG GTATAATAAC
TGGAAATCAT GATGCTCTTT AAGGAATACC AATTGGATGT ATTATTGATG TATTTAATTC CATCCATATG NAGTAGAAAC
AGTTTTCATT AGCAGAAGGC AATTATATTA TAGCTACACA ATATAAAG

SEQ ID NO:503:   (Length of Sequence = 446 Nucleotides)
CTACAGTACC CATCTCCATT TTCAGAGAGC TCCGATGGAA ATTTCTATGA ACTAATTCTC CTGCACATAC TTTGGTACAA
GTGGGCTACT GGAGCCACCT TCCTTCGTTC AATCAAACAG CATTTATTCA GCTTATTTAA TGAACACTAT CCAAGATACT
TGGGGGACAG AAAATGAAAAG ATGGGGAGAC CTGTCAAACA TATGGTACTA TGTCTATGCA AAATAACATT GGAATGTAGA
TTCACAGTGG AAGGCAGGGC AGGCATGGAA GAATTCTGAG AATGAGTGTG ACAGCTCCTA CCTGTAACAG CTCTTCAAGC
TCCTGCTGGA AGCGGTCAGT CAGCAAATCT ACTAGCTGGC TGCGGGCAAA AGTCCGCCCG GCTGGAGGAA AGTGAATTCC
GGGATTTACA GAGCAGGTAG AGGGCATGCG GCCCAGCCCT CAAGCA

SEQ ID NO:504:   (Length of Sequence = 248 Nucleotides)
TTGCTCTTCT TTTCTACCAT GGGAACGTCC TTCTCAGGGG ATTTTTAGGT CTCGGTGTTT CTGTGTTTCT NAATAGGCAG
TTTCTCGCTG TCGGCTAAGG GCTTATCCAG GNCAATATCC AGAGCCCTGT AGGGGTCGTT GGGGTCTTTG TCATCCTCGT
CGCTGGGCAG AGCATTCTCA GGCATCTCCT CTGTNACGAT GTCCACCTGC TGGGCAAGGG CGATGTCCTC GTCGCTCTCC
GTGGGCAA

SEQ ID NO:505:   (Length of Sequence = 367 Nucleotides)
GCTATGTTGC CCAGGCTGTT CTCAAACCCT TGAGCTCAAG CAGTCCTCTC ACCTGTCTCC CAAAGTNCTG GGATTACAGG
CATGAGCGAC TGTNCTGGGC TTACTAAATT TTAAAAGATT TGTGTTGAAC CATCTGCTGA TCATGGAGCA GCAGAGAAAT
TTATTGACAG ATTTTCTAGG GTCATCACTG ATGACAATCT GNTGCCAGAA CAAGCCTGTA ATGCTGATGA AACATCACTG
TTCTGGCATT ATTGCTCCAG AAAGATACTG ACTACAGCTG ATGCAAAGGC CCCTGTAGGC AGTAAGGATG CCAAGGACAG
AATAACTGTT CTGGAATGTG CTAATAATGC AGCAGGCATT CAATAAG

SEQ ID NO:506:   (Length of Sequence = 419 Nucleotides)
ACACCTGGTG ACTTTAGCTA TGCCTATCAA AAGCCTGAGG AAACAACCAG GTCCCCAGAT GAAGAAGATT ATGACTATGA
GTCTTATGAG AAGACCACCC GGACCTCAGA TGTGGGTGGC TATTACTATG AGAAGATAGA GAGAACCACA AAATCTCCAA
GTGACAGTGG CTACTCCTAT GAGACCATTG GGAAAACTAC CAAGACCCCT GAAGATGGTG ACTATTCCTA TGAAATTATT
GAGAAGACCA CACGGACCCC TGAAGAGGGT GGGTACTCAT ATGACATAAG TGAAAAGACC ACCAGCCCCC CGGAAGTGAG
TGGTTACAGC TATGAAAAGA CTGAGAGGTC TAGAAGGCTT CTGGGATGAC ATCAGCAATG GCTATGGATG GACTCTAAGG
ATGGTTGGCC ACACAACTT

SEQ ID NO:507:   (Length of Sequence = 417 Nucleotides)
GAAAACTATT TTACTTAAAA AATATTCTAT TACTTCAATG TCATGTCTGT TGAACGAGGA ACTCAACATG CTTATTTNCC
TTTGGTTCCA AGAAAAACCC AAGTCTAACC AAATGTATGC CACAAGGAAC TGCCAACTGG GTTAAAGCTT GGTATTTTCC
TGGTTATCAC CCTATTTCCT GGTGTAGGAC CTGGGGTTTA ATAGAGACAT TTACATAAAA AAGGTATTTG GTTAAAACAA
GAAATATGCA TGCNCTTCCT TACCACCTTC CTGGGAAAGA ACTGCTTTTT TTNCTTTCTT TCTGTGAATC TTGTTCAAGA
CATCCTGTAG TTTAGATATA TGGGCTGCTT CTTTTTTTACC CTCAAGCTTT TAGGTGACAC TTATAAAGGT GAGCATATCA
TTCTATAAAA TGGAAGA

SEQ ID NO:508:   (Length of Sequence = 308 Nucleotides)
CTGTTTAGAA AAAAAAGTGC AGCTCACTGT CAGCACTCAT TGAATTTTGC ATAAACATGC TTTTTGAGGC TGAAGCAAAT
CTGACTGATT TTCAATGTGA AAATAAAATA TAAAANCTGT TTTTTCNGTT ATTTATTAAC AGAACTAACA TCAGAATTAT
TTGAATCACC AGAATAATCA ATTCTGGAAA AATCAGATTC ATCAGATTAA TCTTTGGCCA ACAACTGTTC AAGAACAATG
TTAACATCTG CATGGCAATG CTACATTTNC TAGGATTTGA CATTTTCAGC AATTGAGGAA TTACTATA

192

SEQ ID NO:509: (Length of Sequence = 370 Nucleotides)
TTTTTGAGAC GGAGTTTCAC TCTTGTTGCC CAGGCTGGAG TGCAATGGCA TGATCTCGGC TCACCGCAAC CTCCGCCTCC
CGGGTTCAAG CGATTCTCCT GCCTCAGCCT CCCAAGTAGC TGGGATTACA GGCACGCGCC ACCACGCCTG GCTGATTTTN
TATTTTTAGT AGACACGGGT TTTCACCATG TTGGTCAGGC TGGTCTCAAA CTCCCGACCT CAAGTAGTCT GCCTGCCTCA
ACCTCCCAAA GTGCTGGGAT TACAGGCGTG AGCACTTGCG CCTGGCCGTG ACTGATTTTT TTTCATGTAG AATTGTCAAC
ACGAGAGATC ACAAGTGGAG CACTTTGAAA GACCGTCGGT TGTGTGCACG

SEQ ID NO:510: (Length of Sequence = 446 Nucleotides)
TCTTTCCTCT TACTTTCCTT CCTTCCCTCC TTTCATATGA GAGACTCTAT ATGGAAAAGG AAGCTGAAGT GGCCTGCACA
CGATATAGAA AAGCCATATT ACTTTCCTAA GACTGGTAAT CCGGCAATAC CTAATGCAGC ACATGGCTAG AGACTCCACA
TTTGCCCAAC TTCTCTGCTC ATCATTTGCC ACTGTTCTGT AAATTTCCCA GTCCCCTCAC AGAAAGCACA TGGCACCATT
TAAAATGGCT GCTCACTCTC TAAGGGAGGT CTCACAGGCT GGTAGTGAGC CCTGTCCCAA TAGTGAAGTT CTCCACAAAT
GGGGAGACTT CTCCCAGGAG GAGGGGAGGC CTGGAGATGG GCATGCAGTG GGCAATGTCA GCTGCCCTCC AGGTTCTTGC
TTGCCCTTTT TCCGCCCTGG GTCAGTATAC AAGCTTTCGG GGACA

SEQ ID NO:511: (Length of Sequence = 354 Nucleotides)
AATACCAAAC TGAACAAACC TGTCTCTTTC TGGTTAAAAC AAAAAAAAAA AAACAAAAAC AAACAAACAA AAAAAATCAC
ACAGTTTAAT AAAGANGCAA CTTCTTCCTT TTAGGNGCAA GGACTACCAA TCTAATTCCT ATCTATTGAG CCCCCAAAAG
CTCCCTTCAG AGTCTTTCTT CTCTTTATCA ACAGAAAAGT CTAGAATGAN TATTCACAGT TTTCTAAGAA AACCAGAAAG
CCTTTAAGCA GCATTAGCTG GNCATATTTC TG TCCTAT AGTTACCATA GATGAGTACA GCTTTACACT AGGGGGCTGG
GAGTTCAGAC TCACAGCAGA GACTNCTGGG GTAG

SEQ ID NO:512: (Length of Sequence = 374 Nucleotides)
CATGTATATT ACAAAAAAGT TCCTGTACCA AAGTTCTTAT TAGACTTTAT TTTTGTTTTT TTAATTTTTA AAATTTTTTT
TGTTTTTATT TTTATTTTTT AAATTTNCTC TCCTCGTGGT GACTGTCATG TGATTGTCTC AGTTTCTGGA CCAAACAAAC
ACACTAATAA TTTTAAATCT GAAACAGTGA TTGTCCCTTT NGGCTCATGT ATGTACAGGG TGATCAGAAG TGGTACCTGT
TAGCAAAAGT GTCACGATGC TGCACCTCTA CCGAAACTGA TACCCACGAA CTACGGAATC TAAACAGACT ACACCCTGTA
ACTGCGTATT ACTGTCCACA ATGGGGATCT CCAAAGACAA AAGAGGTATG GAAA

SEQ ID NO:513: (Length of Sequence = 463 Nucleotides)
ATCAGCAGAT TTTNCTCTGG TGAATGTCTA ATCAGTGTGA TTTCCATAGG CTATACTTAC CTTTTGGGGG CTACTTGCCA
ATNATGTTTG GTCAGTATCC TTGCAAACAA CAGAGTGACA GATTCTAAAA ATGACTTTGC AGGCCAGTAC TAAGAAAGAC
ACCAAGGTTC ATGGGCTTGC AAATAAAAAG TCCATAACTT CCCTGCCCTA CTTCACCAAG TGAAATCGAG TTCCTCACAC
TTCTGCACAC AGCTCTTTCA GGATCTTCCC TTCCCTTCAA GGCTGTCTGA TGTTCAGTTT AATTTGATTG TATTTGTATA
AAGTGCTGAG TGTTGAGTCC TCAAAGAAAT TTACTTTCAG TCTAANGCCC CCTTGGGACA AGAAAGTGGC AACCAGGCAA
ATGATTGATT ACTTATTTGT TTGAGTATCA CTTTGTGATT GTCCCAGGGC TGTATTACAC ATA

SEQ ID NO:514: (Length of Sequence = 396 Nucleotides)
CCAACCCAGA AAACGTTTCC TGGCTCTCTA CTAACAGTAA AATGTGCTGA GCCCAAATTT TCTGCTCTAA CATGGGTCCC
ACGGACCTAT CAGTCTGCTC TGGGGTGCTG ACCTGCTGGG TCCTGAGCAG GGTCTTTCCC TAAGCATCAC TGTGGGTTTG
GAGACAGCTG TAATGTGTGC AGCTGTCAGC AGAAAGTACA ATGCCACTGG GCTACATATG TCCATATCAT CCACCACCAT

TTCCCACTGT AAAACCAAAG GCTGCAACTG TGAACAAATG TGGACTTCCT CAAAGGACAA ATGAGGAGAC TGAAGGCTAC

ATTTCCTCCT TTGAGAACCC ATTAGAGAGT GTCTACAGTT ATACAACAGG TTTCTGCAAG ACCCTGTGGG TAACTT

SEQ ID NO:515: (Length of Sequence = 416 Nucleotides)

ACAAAACAAA AAGTAGTAGC ATCTCTGTGA GAGGTACACA GTTAGAAAAA TGATTCCACA CACGAGTAAA GAGATTTACC

AGGAAGAGTC TTGTTTTCTA AAAGTTGATA CAACTAGTAG AAAAATACTT GTCAGTGGTA AATAGAGCAG AAGTAGAAAA

AGCAGTTAAT CTATTAGATC AGATCAGAGT GTAAGGCAGG TATATCAGGC CAAAGGTGAT AAGACAGAGC AGAAATAAAG

TATTGTTAAT TCATGCATTT NCTGACTCAT TTATTTATAC ATTGATACTG TCACTTATAA ATCAAATCTT ACAGGTCAGG

TTCTGTGCTA AGCTCAGGGG NTATAAAANG AAATANGTCA CTGCACTCGC CCTCACGGGG GCCCACCAGT ATAACTGGGT

AGATAGTTCT ATAAAG

SEQ ID NO:516: (Length of Sequence = 368 Nucleotides)

CCCATGGAGC TCGAGAACAT CGTAGCGAAC ACGGTGCTAC TCAAGGCCCG GGAAGGTGGC GGTGGAAATC GCAAAGGCAA

AAGCAAGAAA TGGCGGCAGA TGCTCCAGTT CCCTCACATC AGCCAGTGCG AAGAGCTGCG GCTCAGCCTC GAGCGTGACT

ATCACAGCCT GTGCGAGCGG CANCCATTGG GCGCCTGCTG TTCCGAGAGT TCTNTGCCAC GAGGCCGGAG CTNAGCCGCT

GCGTCGCCTT CCTGGATGGG GTGGCCGAGT ATGAAGTGAC CCCGGATNAC AAGCGGAAGG CATGTGGGCG GCANTAACCG

CAGAATTTTC TNAGNCACAN GGGTCCTGAC CTCATCCCTG AGGTTCCC

SEQ ID NO:517: (Length of Sequence = 393 Nucleotides)

CCCAGCGCCT GGAGAGCCAG CCCTGCAGGG TGGGCTGGGC GAGCCAAACT GCGTTCCTGG TGCAGGGCTT CGGGTCTCCC

TAACAGACCT TATACGCTGA CCGGCGGCCG CCATGGCAGT GTCTCTTTGC TCAGACATCC AGGGACGACC ACATTCGTCC

AACAGCGGTC GCTCCACCAA TCCTGGGAGA AGCGAATCGT TTTCTCCGCG TGCCCTGTCA GCCGCTCATG GTGCCCAGAG

AGGAATTTTA GTGGCAGCAT TCCGGCTGTC ACGNCACCGA AATTNCCAGG CCACTCCAAG TCAGAAGGGA CCACCAGGAA

AAGTCAGGAA GAGAACCACC ATCAAGGTCC CAGGCTCTTT TTTTGTGACA AGGACTTAGA GGGGTTTGGG TCT

SEQ ID NO:518: (Length of Sequence = 465 Nucleotides)

CCTTCTCTGC AGATAGAAGA GCCAGAATGG GAAAAGCGAA GATCCATCAA CCTGTCTGAG CTCATTGATG TTTACAGTGA

TGGTGTTGAA CTACTCCAGA TGGTGAAGGC ACCAGATTCC AACTGCAGCA ACCTTCTGAT TACAACCAGA CAAAGCCTTG

TNCTGCTTCG GGGGCAAAAT CTGACACCTT ACTGGGCATT GAGACTTCAA GGCCTGCGCA GCAGCCTACT CCTGGATATT

TCACTGATGA TCAGACATTA GACTTCCTTC TGCAGATACA GGATGGAGTT GGGATGAAAA AGATGATGGT TGTGGATGGT

GACTCTGGGC TCCATTGTTT GGAGTTACCG TGCTCCGTTG TCACATGAAA GAAAACGGCC AGCCACCTCA GCAGTTACTT

TCAGACCAGA AGTCTGTCTT TCCTCTTCTG GGGCCGAAGG CTTGTCAGGT TGCATCTTCC CAATT

SEQ ID NO:519: (Length of Sequence = 382 Nucleotides)

GGCCGTCGGT AACAGAAAAC TCAGTGCATA CTTTGCTGTT GTTAGGTTGT CAATATAGTC TTTCTGTAGG ATGGATAGCA

TGTTGAGAG GTGCCAAACA AGAACTTTTG GGGTTAGTAG TGTGTCTTGT GGAGGGTATT ACAGGACTGT GTAATTATAG

GACTCTAACT TGACATGGCT TGGCACCCAC TTGCAGCTAG TGGGTACAGG GTACAAAAGA TGTTAGAGAA AAGCTCTACA

GATTACGTAC TTCTGTGTCT TCGTATGCTC AACACTGTCC TTTTGTCCTC CATGAAAGAT GAAGGAAGCA AATTTATGTA

TGTNCTTTCT TTGACCTTCT TTAATCCTCT GATACTTTTT AGATTGCATG ATTTTACTAG GC

SEQ ID NO:520: (Length of Sequence = 304 Nucleotides)

CCAAGACTGC TGATCTCTAA ACAAGCATCA AAACCCGAAG CTCATTAACA TCAGAGTGAG CTTCAATAAG GTGANCACTA
CAATGATGTA CAATTACATC CTAATANTTC ANTGCCCAAG AGCCCTGTAG AACTATTGCA AGGCCCAGGN TTATCACAGT
ATGCAAATGC ACTAGGAAAA TCATTACCTA TTTAGTCCCC TTTATTTTGG TGGGTTTAAC ATGAGAAGAG TAATCCATGC
TACAAGACGA GATTTCATTT TACAGCTGTA GTAGCCAAGT GCNTAAAAGC TTGANTCTGT CCCA

SEQ ID NO:521: (Length of Sequence = 360 Nucleotides)
TTGAGACGGA GCTTTCCCTG TCACCCATGC TGGAGTGCAG TGGCGCTATC TCAGCTCACT ACAACCTCCA CCTCCCAGGT
CCAAGTGATT CTCCCGCCTC AGCCTCCCAA GCAGCTGGGA TTACAGGCGT GAGTCACCTG CCTCAGCCTC CCACAGTGCT
GGGATTACAG GTGTGAGCCA CTGCGCCAGG CCTCCCAAGG TGTTGGGATT ACAGGCGTGA GCACCGCTCC GGGCCTCCCA
CAGTGCTAGG ATTACAGGTG TCAGCTGCTG CACCTGGCAA TTTTTTGATA TTAGGTCCCC TGAAGTCCAA AAAGAGATAT
ATGGCTTATT TGGTATAATG AAATCATACA GGAAGGCATT

SEQ ID NO:522: (Length of Sequence = 287 Nucleotides)
TTGAGGAAGT TCTGTTGCTG GTGAGGAAAT TCTNTTGAGT TCTGTAGGAA TTTTTATAGC TTGTTTTGCA TTCAGTTCTA
TCAACAAGCC AGCAGCAACT CAAAGGGAAG CCTCCTNCTG GCATATCAAT CACACAGGCA CATAGGATCA TATAGCATAT
AGGATCAGTC CCAAGAAGAA CTATNGGGTN GGGGAGAGGT TTTTCTTCCA CTTCTTGGGN TTCAGTGACT TTGAGATGGA
CCTCTTTTTT CCNNTGGACA AAATGTCATC ACACCAACAT CTTATTG

SEQ ID NO:523: (Length of Sequence = 318 Nucleotides)
CCTTGTCTCT ACTAAAAATA CAAAAATTAG CCGGGCATGG TGTCACGTGT CTGTNATCCC AGCTACTCGG GAGGCTGAGG
CAGAAAAATT GCTTGAACCT GGGAGGCAGA GGTTGCAGAC AGCTGAGATC ACTCCATTGC ACTCCAGCCT GGGCAACAAG
AGCAAAACTT TGTCTACAAG TCCTCCTACG CTGACAGGTC CTCACTCACC TGAATCTTTT ACGCCAGCAG CGTCTCTTCA
CTGACGTNCT TCTNCATGCC GGAAATAGGA CCTTCCCTTG CCANCGGGCA GTGCTGGCTG CATGCAGTCG TTACTTTT

SEQ ID NO:524: (Length of Sequence = 238 Nucleotides)
ATCTCATTGG AGCCAGGGTT CCAGTTCTCA TGCAAGTCGG CCACAGGAGC CACGGAACCG CAGTAGGATT TCTACTGTTA
TACAGCCCTT GAGGCAGAAT GCAGCAGAAG TTGTGGACCT TACCGTTGAT GAAGATGGTA AATTGAAGTA GTAACAGTAG
AAAATTATGA AAGGAGTTTG ATAAAAGGAA ATCTCTTAAT ATGCTAGAAA CTCCTCCTGC TTACTGGTAA TATATTAT

SEQ ID NO:525: (Length of Sequence = 168 Nucleotides)
CCAATGAGTG TGGACCCTAA ATTTAAACAG CTAAAGCTAT AGTCTAAGGA CAGTCTCAAA TAAATACCTT TGAATTGTCA
TATGGTGCCC AGGAGGGTCT TGTGGAAAGG GTTTCATGGT AGTGAAAGAT GTAATANCTC TTTTTTCCTT TTAACCCTAA
GCCTGTCC

SEQ ID NO:526: (Length of Sequence = 387 Nucleotides)
GGAGGTCACA CGGTGAAACA GACACAGTTA TATACAACAG GGCAGGTTTT TAAAAAGAGT TGCTCTCAGA CGCATTTTTC
CTGCTCCCTA AAAAGCCGAG GAAGATACTG GNTCCACAGA AAGAAAAGGC AATGCCGTAA CATGAGGCCC TCATGGCCGC
ACCGTCCAGG GGAAGGGCTG TTAAAAACAC AAGTATTCTT GTGAAATACT TCGATCTGAG CATTAAGGCA GGTCTGCAGG
AGATCCGTCC TGGGGACTCG GACAGCAACG CTACCGGCTC CGAGAGGACA GTTAAATGTC GCCTCCCGGC AAGAGGGGCG
GAGAGATCAG ACAAGGAGTT GTTCCTGAGT TNAAACCTGC TACAACAGCA AACTCCAATA AACTCAA

SEQ ID NO:527: (Length of Sequence = 336 Nucleotides)

TTTGCAGTTT TACATTCCCC TAGTACATCC CTGCTTACTC GGGAGCACAA AGCTTGGTTG TAAGAAATTG TGATTTGGAA
GTAGAGAAAA GCAAGGAAGT CCAACCTCAG GAGTGTCTCT GTTACTAAGA GGAGAGTGAG ATCCAGGGTG TGGGAGATGA
TCTGAAGGTC TATGGGTGGG GAGTGCCACA GGAAGAAGGG TTCTGGTCGG AGTTAAAGGA GGATATATCT ATATNCTGGG
AGATGAGCTG AATTCAGAAC ACATGGAATG GGAACAATTC TCCCCATACT GCGTTTAAGC CAAATTAGGC TGGCATCCCC
CACCACGGCC AACTAA

SEQ ID NO:528:   (Length of Sequence = 482 Nucleotides)
TTTTACTCTA GCGTGAGGAG GGGGCCTCCT AAGGAAAGTC ATGCTGGGTA AACTGTGCGA TGTTACAGAG CACATTGAGT
CTGTGGTCAT CGTGGTTCTT CTATCTTCAC TGTCACCTGT ATCCTGTTAC ACATACTCAG TTCCTAATTG TAAGCTCAAT
TTTGGTATTA GCAAAAGCAT CTGTCAGTTT TTCCTCAATT ACTCACACCT CTTCTTGCCT AAATAAAACA AAGAAACAAA
GAAAACAAGT GTGGTGTCAT TACACGTCTC GGGAGTTCCT CGTCACTGAC TTTATATATA TANAANAAAG AATGCACATG
CGGGCCACGT TCACAGATAG ACAGATTCAC CCGAAATTGA GGAATGAGGG GCCTTAAAGG CTGCCGANAA NCAAAATGGG
GTGGAAATTA GCAANCGTTG TTTTCCGGTC AATINCCAAT TGTGCACTGG CTGCGTTGAG ACAAGNCCAT CTTCCAATTT
CC

SEQ ID NO:529:   (Length of Sequence = 412 Nucleotides)
CTCTCAGACA GTATCCTCCT CGAAGCAGGA ATCCTAGTAA ATCTCATCTG CGGCATGCGA TTCCTAGTGC AGAGAGGGGA
CCTGGGTTAT TAGAAAGTCC TTCAATATTT AACTTCACTG CAGATCGATT AATTAATGGT GTCCGGAGTC CACAAACAAG
GCAAGCAGGT CAAACTAGAA CACGGATTCA AAACCCTTCA GCATATGCCA AGAGAGAGGC TGGGCCTGGG CGTGTGGAGC
CAGGCAGTCT CGAATCCTCT CCTGGTTTAG GGAGGGGAAG GAAGAATTCC TTTGGCTACC GGAAGAAAAG GGAGGAGAAG
TTTACAAGCA GCCAGACACA GTCTTNCAAC GNCACCAAAG CCTCCGTCGC CAAGCTTTCG AGCTGGGGGC TTTTCCAGCT
TTCCCTCCAT TA

SEQ ID NO:530:   (Length of Sequence = 301 Nucleotides)
ACTTTTTAAT AATAGTCATT TAAAGTGGGT GAGATAATAT CTCATTGTGG TTTTNATTTG CATTTCTCTG ATGCTTAGTG
GTGTTGAGCA TTTGINCATA TAACTNCTGG CCATTTGTAT GTCTTTTTTT TTTTTTTTTT TTTTTTTTGA GATGGAGTCT
CACTTTGTCA CCCAGGCTGG AGTGCAGTGG CGCAATCTTG GCTTACTGCA ACCTCCACTT TCTGGGTTCA AGTGATTCTC
CTGCCTCAGC CTCCCAAGTA GCTGGGATTA CAGGNGCCCA CCACCACGCC CAGCTAATTT T

SEQ ID NO:531:   (Length of Sequence = 312 Nucleotides)
CAGATGAGAC CAGGCCTTGA CAGTGGGGGC AAGTCCTACC AACCTGCACA GCACATCCAG CAGGNCAACT GTGGCTCAGC
AGGTGCCAAA TGGAGCCCAT GGGCAGAAGA TGCCCACAGC GTTCCAGATG TGTGTGGTCT GAGAGATAAA AGGACACAGA
ACAAGATGAC TGTGCAAATA GCCAAGTGGT GGCAGAAGTT CTGCATTTCC AAGAGATGAT CCACTCAATA ATTTGACGAT
ACTAGTTGGC CAACATGCTC AGAGAAAACA GNCTTATCCA CATCTGGAGC CTCATTCTCT CTCAGGATCA TT

SEQ ID NO:532:   (Length of Sequence = 313 Nucleotides)
GCACAACTCT CGACCTTTGG GAGCAGCCAG GGAGGAGTCA CTGTCCCAGC CCCCTGGCCT AGGCACAAAG GGGTGGGAGA
GACAGCTGGG CCAATATGGT CTATTACCGC CTGAAACCCC GCCGAACCAC CCTTAACTCT GCCTTCAGGC ATATCCCCCC
ACGTCCATGT CCAGGAGCCC CCCTACTGTC CTGGTCATCT GTGGCCCGGG GAATAATGGA GGAGATGGTC TGGTCTGTGC
TCGACACCTC AAACTCTTTG TGAGTATGTG GGGAGGGGCT GTGGGGGAGG AGGGCGTNNG GGCTCTGGGA TCT

SEQ ID NO:533:   (Length of Sequence = 375 Nucleotides)

196

GTAATTCCAT GTGGCTGACT GGGTAACAGA TTTGAAGGGT ATCACAGACC TTCATGTTGT AGCTCATCGC AGTGTATTGT
TTGTTGCTTG TCTCTGTCTC CCGTTGTATT GCCATCCTCA AGGGCAAAGA CTGCATCTTT GTATTCCCAG CTCCTAGGCC
TGAGTCAGGC ACATAGTAGG AATTCAGAAA GTATGTTTTG GATGTAACAT TCCTCCTTTT TCCTGGACAA AATGGCCTTT
TGTCCGGTGC ATTGTCCTTT CCATAGAGGA GGGGTTGGGG CAGGATTGTN AGATGACTGT GTTTGAATCT TCAGTTAGCT
AAGACAAGGA TACGTNTTTT CCATGGTGCA AATCTAAAGG GTTCTAGTGA GGTGGTTC

SEQ ID NO:534: (Length of Sequence = 374 Nucleotides)
TTTTTTTTTT GTCCAAGGTT TATCAAATTA ATTGATTTTG GGGGCAAGA TAAAAATTTT NATTTGATTA ACTTTCTCTA
TTGGTTTTTG TTTTCAATTT CATTTATTTC TTCTTTTATC TTTATAATGT NCTTACATCT GCTTGGTTTG GGCTGGGCAC
AGGGGCTCAT GCCTGTAATC CCAGTACTTT GGGAGGCCAA GGTGGGCAGA TCACTTGAGA CCAGGAGTTT GAGACCAGCC
TGGCCAACAT GGCGAAACCC CGTCTCTGCT AGAAATATAG AAATTGGCCA GGTGTGGTGG CCAGCACCTG TGATCCTAGC
TACTCGAGAG GCTGAGGCAG GAGAATGGCG TGAACCCGGG AGGGCAGAGC TTGC

SEQ ID NO:535: (Length of Sequence = 433 Nucleotides)
TGCCGACTGA TTCCAAGTCC CCAGGAGGGC TGTGAATGCT AATAGATATT TGGGGTTTAT CTACATGGAT AAATCAGAAT
TGTTAACATT ATTTATAAAG ATAATACTTA CATAATTTTN AAATTCACAA AGATTGTTTG GCTTAATGAT TTCTAAATGT
ATGCAATATA ACATTAGGCG GCTTTTATTA ATTCTATTTA TGTAATGGAA AAGCTCAATT CAGCAAAAAA CAGATCTGAT
GGGATTTGGT TATTCTCTAC CTGATCAGAA CAAAGCCTTA CTTTACATTC CTGACTACCG ATTGGCTGAG GGATTGTCTA
ATAGAATGGA GCTTTCTTTT GAGCGGTATC CATGTGTACA AAATTGGGCT GCTTTACCTG TGACCCACGG ATTGCTGGAG
GAGCTTGTAA ATGTAGTCAG CCGTTTCTTT TGG

SEQ ID NO:536: (Length of Sequence = 438 Nucleotides)
GATGAATTAA GAGGGAAATT TATAAAGTAA AATCTTTAGC GCTGTTGATC AAAGAGTTCC AGGCCGGGCG TGGTGGCTCA
TGCCTGTAAT CCCAGCACTT TGGGAGGCTG AGGTGGGCAG ATCACGAGGT CAGGAGATCA AGACCATCCT AACACGGTGA
AACCCCATCT CTACTAAAAA TACAAAAAAT TAGCCGGGCA TGGTGGCAGG TGCCTGTAGT CCCAGCTATT TGGGAGGCTG
AGGCAGAAGA GGAATTCCTG CAGCCCGGGG GATCCACTAG TTCTAGAGCG GCCGCCACCG CGGTTGGAGC TCCAGCTTTT
TTGTTCCCTT TAGTGAGGGT TAATTTCGAG CTTGGCGTAA ATCATGGGTC ATAGCTGTTT TCCTGTGTGA AATTGTTATC
CGNTCACAAT TCCACACAAC ATACGAGCCG GAAAGCAT

SEQ ID NO:537: (Length of Sequence = 316 Nucleotides)
TAGTAGCACT AAAGCCCCGT TTTGGTCACA CTCTCACCTA GGTGAGAACC TGACCAAAAA TGTGGAATTA TTAAACAAAA
TGATGGGAAG CCAATGTNCT GAAACTGAGC TCTTGCACTA GGCCCCCACA GACCAAATTA AAATGGAGTC ACTAGTGCTA
AATGCTTTGG AGTCAAACAG AAATGTTAAA GAAGATAGAT CCCAAAACAG AGCAGTGTTT TATTTTTCTC CAGAAAACAG
GAGATTCCAG CATAATAAGA AAGTCTCCTC TGTTGTAACC CTTACAAAAA AGTAACCTGA AGTAACCATT TTTTTT

SEQ ID NO:538: (Length of Sequence = 303 Nucleotides)
ATCTTCATGG GCGTCCTAAC TGTAACAAAA ACCCCACAAT TTGAACAGAA GAACAGAAGT ATCTGGTTAC AGAAGTGCAT
TCATACATTT CACAAATGTT TCAGTATCCT CTTCTCCCCG ACCCCAGCAT GAGCTTTAAT TGGATGTATT TATTCTTTCA
CCAGCATGCC CATGAAGGNG CTAAGGAAAA CATTTACCAA GTCTGTTTCA AAATCTGTCC TTGGCATATC AAACTTTTTC
TCTTCCTTTT TCATGCTTTT TTTTAAAAAA AAAAACAGGA GAAAGCGAAT AGAGAGGAAA GAG

SEQ ID NO:539: (Length of Sequence = 262 Nucleotides)

CATGTCATAG TGGCCTGCTC TCCTAACACA GCACAATTTA GGGCATATTT TCATGATGGT CTATCACTGG ATTACAACAC
ATCTCTTCAT TAAAGTCTTG GGAAAGAGGC TTCAACTTTN CTGTGTTGAG AAAACTTCAC AGGTGTGTAA AGTTTGATCA
GTATGTATAA TATATTTNAT TACATATATT TNATTTTNAT TTTTCATTTT TTTGCATACA TAGCAGGTGT ATATACTTAT
GGGTTATATG AGATATTTTG ATAAAGGCAT GCAATGTGTA ATAATCACAT CAGGGTAAAT GCAGTATCTA TCCATCACCC
CAAGCATTTA TCCTTTGTGT TACATACAGT CCAATTACAC TC

SEQ ID NO:540: (Length of Sequence = 416 Nucleotides)
CACCAGGGAG AACCAATACA ACAGAAAAAA AGCAGAGAAC AGCTATGTGT CCTGCCAGGT CTACCAAAGA TAGTCATCCA
AACATGAACA GATGAGAAGG CTGTTTTTCA AGAAGGTGAA AGTGACAGAN TATTCAATGA ATCTGAACAC ATGAAGATAC
TGAGACACCA GTAGTTCAGC AATAAGTGGA GAGAAAACTA AGCAAATGAG AAACTTAGGA ACAATTATGC AGCAAAGAAC
AACTGGATAA GCTGAAAAGT GTTTAAAGAT GCTGCCGTAA ACACTAAGTA TCACAATCAA ATTCTGATTT GTAAAAATAG
AGGTATGGGA AGGGTACANG TATGTTTGTG GGGCAAAATG GTGAGGAGAG CTTAAACCCT CTTCTTCCTT AATGAGGAAT
TAAATAATCC CATTAA

SEQ ID NO:541: (Length of Sequence = 341 Nucleotides)
GAAATACTTC CAGGCCTTCG AAAGGCCATC CTTTGGACAC ATGTAAAAAG CTGTCTTGTT GGCCCGTTAT TCCCACTGAC
CCGTCTGAGT GATCACCCAG GAGCGCGGCG GCAGCAAGCA GAGCTCACCG GATTTGGGAC AAGGATTTTA AAGGCAGCTA
CAAAGCTGAG CTCTATTTGC TGATGATAGT CTCTGTTCAG CTGTTTAAAA TGACTGTCTG ACTCACCATG GTAATTTTNC
ACAAATTAAA AACACATTTT GGGTTGTGCA ACAGTGGTTC TCATCTTTCC AGGCAGGCAG ATTATTTTAA TGCTGTTTAT
ACAGGGAATT GGGACTCTCG G

SEQ ID NO:542: (Length of Sequence = 334 Nucleotides)
TTGTTGTTTC CTACCTTAAC CAATACCTCC TGGAAAAAAG AGGTATTGGT ATAAAAATAA ACCATACCCA AACATTCCCA
CAACATGACC TTAATAAGCT GGTGCACAGT AGATTATGGC AGAGGAAAGA AAATTGACTT TAGAATTAGA GAAACTTAGG
TTCAAATCTC AGCTCTGTCA TGCTTTGGTT GACCTTCAGT AAGTCCCATT TNCTTCATCT GTAAAATGGG AATAACATCT
ACTCCACAGC ATCATTAGAA AGATTAAATA GTGGCTGGGC ATGGTGGCTC ATGNCTGTAA TCCCAGCACT TTTGGGGAGG
CTGAGGTGGG GCGG

SEQ ID NO:543: (Length of Sequence = 350 Nucleotides)
ATTTGTTTGC AATTGACAAC ACCTCATTAA TTGTAAGCCC AGTGACACTG CTTGCTGTTT CAAGTCACTT TTAAATTACA
CACGTGCTAC TTAATCTTAA AAGCAAAATT AAACATTGGA CTGGTTTACA TTTCAAGCTA CAATATGGAA CCATTGTATT
TGGAGGAATG AGTTTAATTAT GCATTGTAAA ATAAAATTAG GGGGTACTTT GCATTCACAG CGGCTTATGT AATTAGGTTC
AGTCAACTGT AATGTTTCAG GTTAATGTCT TCCATGGATG TATGCTGTGT AAATAGTGAA CTTACATATC CCTTAATACA
TCTGAATTAT TACATAAATC CTTAATATTA

SEQ ID NO:544: (Length of Sequence = 328 Nucleotides)
GGGAGACGAG AACTCTTGAG ATCCGGGGTC ACCTGTNAGT CGCTGGACCC AAGGGGGAAG CGTCTTGATT CCTGGAGGAA
ATCTCCGAAG TGATGTGTAA CCCTGTGTGT CGCCTGCACT TCGGCCGCAA CTGCCTTTGG TTCAGTCCCC TGTTCCTGTA
GGAGGCGGGG ATCATGTAAC AGTGGAGCAC ATCGCTCCCG GCTTGGACGC CTTTNACCTT TAAGTGTTCC TGATTTAGTT
TGGCTTTGGG TCTACCAAGA ATTCTAGTCA GTTAACTAGC TTTTTAAGCC AGGTTCCTGA ATTTGGTAGG CATGGACACT
CCCAGTAG

198

SEQ ID NO:545:   (Length of Sequence = 342 Nucleotides)
GGGCTATTAC CTCTGGGCAC TGGGAAAACT GGGAGACGGG ACAAGGGGTG ACCAATTTTT CAGTGTATGC CCTTTTCGAA
GTGTTAAACT TTTTTTTTTT TTTTTTGAGA CAGGNTCTCA CTCTGTTGCC CTGCTGGAGT GCAATGGTGA GATCGTAACT
CACTAAAGCC TCAACTTCCT CGGCTCAAGC AATCCTCTCA CCTCAGCCTC CTGAGAAGCT GGGACTACAA GTNTGTGCCA
CCATACCTGG NTAATTNTTA AAGTTTTTGT AAAGATGGGG GTTTTCCGAT GTTGCCCAAG CTAGTCTCAA ACTNCTGGGC
TCAAGTGATT TGCCCACCTT GG

SEQ ID NO:546:   (Length of Sequence = 280 Nucleotides)
CTCGTAATGC CAGCATTTTG GGAGGCTTGA GGCGGGAGGN TCCCTTGAGC CGAGGAGTTC GAGATCAGCC TATGCAACAC
AGTGAGACCC CTATNTCTAT TTNATTTAAA AAAAAAAAAA AAAGGGGGTC ACGTTTACTG CCACCATCCC AGGCAGAAAG
ATGAAGCCTA GAGCCTCTCA CTGCTTCCTA GTGGGTCTTG GGTTGTAATT TGCTGTCTTG GGTATATTTT TTGGCAGAAA
GCATCTGGCA TCAGGCACTG GTTCTCAAAG TCGGGCCCCC

SEQ ID NO:547:   (Length of Sequence = 298 Nucleotides)
CTAAAGAGTT TCACATAGTG GCTCAGTCCA GCCTTGTGGG GATCTTGCCG GGGCCTGGGG CCGGTGGTCC GGGGCCTAGG
GGGATGCCTN ACCAACAGAG GCTCTNCAGG CTCTGAAGAT AAGCTGAGGG CAACAGTGGA CAGAGGGGGC TGAACTTGCC
TCAAGGAGGC TCTTATTCAA GAGCAAGTCT TGCTGGCTTC TNCTGAGGCT GGGGACCACG TGGCCCTTTG GCCAGCCAGG
ACCAGCAGCN CTNACCACCT GCTGAGGGGC AGTTTGGGTC AGGGGGGNCA CATAGAGG

SEQ ID NO:548:   (Length of Sequence = 311 Nucleotides)
GAGACAGGGC TGTTCCTGC ACTACACTGG TCATCTGACC ACCTTTCTGC AATGCTAAGA AGGTATTCTT TGACCAAACA
GCAGTCCACA TACAAGTTTA AAAGGGGCCC TGTTTATGTA GGAACAACAC TGAGGTGGTG CGTAGCAGGT ACAAGACGCC
CAAATATTTC CAGTTTATCT TACGGCTGGA CTCCTATTCT CCCACACTGT TTCCTAAAGA AGGTCCACAT TATTTTGGNT
ACTAGCCTAG TTTAAGTGGA GATACTGTGG GCAACTTNAA AGAAATGACA TCAGGCACAC AGGCTGAGCT T

SEQ ID NO:549:   (Length of Sequence = 387 Nucleotides)
TTTATTTTGG TGTAAAGACA GGAAGCTGGA AAATACACTG TATTTAAAAT TTNCTTGGTT CCCCCTCACA TTGTGGAAAC
CCCCTCCCCC CAGAGCTAAT CTGTTCAAAC TCAAATACTT AAAAATTACA GCAGCCAAAC AAAAGCATGG GGGAAAAAAA
AACAAAAACA AAAACCAGAT GGAGAAGGTA GCCTGGGCCA GTAGTGTCAC TTGGTGTGGA CGACTGAGGT GCTGAACAGG
AGCTTCTGTT TCTGTTTTTT TCTTTTCTTT CCTCCTTTCT CTTCAGAGAG GGGATCTNGA AGTAGCTGGG TGTGTCCAGT
TTCATGAAGG CTGCTTCAAT AGCTTGGCTG AAGGAATTTT GAAAACTNGG CACAGGAACA CGGGTTT

SEQ ID NO:550:   (Length of Sequence = 377 Nucleotides)
CACCCCCAAC TCTTCACCAA GTAGGGGCCC TGGCTTGCAA TTGCAGAAGA GCTTTCCCAT CCCTGGGTGA GCATACCTAC
TGGTAGTGGC TCCGTGATTC CCTGGGGAGG GGCTCCCAGA GGTAACCAAC CAACCCTGTG CTACTGCTAT GACCACAGTT
CTGCTTCTGC TGCCCTCAAA CTGGGGAAGA AACAAAGAGC CTGAGGGCTT TACTCACGCT TCTAGCACTA CGCAGTCACC
ATATAAAGAG GAGCCCAGTC TCTCTTCCTT GTGAACCCTT GACCCCCAAC TCTTCACCAA GTGGGGCCCC CAGCTTGGGC
CAGCAGCACA GTGGCCCCAA CCCCTAGGCT GAACATTCCA GTAGCAGCTG CTCCGCG

SEQ ID NO:551:   (Length of Sequence = 320 Nucleotides)
GAGTTTNTGG TGAGCCGAGA TCACGCCATT GCACTCCAGC CTGAGCAATC AGAACGGTCC GGCTCCTGTT GCTCAGGAAG
CAGCTCTGGA TGACCTTCAT GANGAAATTT GCAGCCTCGC GCTCAGTCAT GTNGTGCTA AACTTGNGCC TGGANGAGAG

199

GCTGTGTCAG GGCTGCCATG GGCAGGGCCG TGCTGGCTCC CTGGCCCAGT GGGAGGAGGG TCTTCCATGG GGACGGACTT
CAGCTGAGAG CCATGCCCTG GGAAATGTAC CTTTGGGGTC CACATGTTGG AAGATGGGGT GCTGTGAAGG CCACACC

SEQ ID NO:552: (Length of Sequence = 334 Nucleotides)
ACAAACTGAC AAGAGAAAAC AAAGAATTCT TTGGTGATCT GGACACGCTG ATGGGGCCTC TGACCCAGCA CAGCAGCATG
ACCAATCTTG TCCGCTACGT TCGCCAAGGA CTGTNTTGGC TGCGCATCGA TGCCCACTTG TTGTAGTGGG TGTTCTCAGA
TCTCTAGCAT CACGACCCAT CACTCTACCT CTACCAGCGC ACTGATGGTC ACTGGTGGAA CTCCACTCAC TGGGGAACGT
TCTCTTTGGT TATGTTTGTT TTTATGCTTC TTTTGTTATC TGTAAAAAAC AGAAGTCATT GTAAGTTGAC ACTACAACTT
AAGGGCAGTG TACG

SEQ ID NO:553: (Length of Sequence = 371 Nucleotides)
GAAAAGGGGA AAAATCACAA TATGTGTTCT AGACAATATT GGTTTAGATT TTTTAAAGAT CTAAAATTCA ATTATGGAAA
GCCAGCAGCC TGATCCAGTT ACTGTGACTA AAGCAATTGT CAGACCATCT CTAGTCAACC CCTTATGGGT TTTGCAATGT
GTCTACCCCA ATTTTGGATC AGGAGGGGTC AAACAGAAAT ACAGCAATGT GATTAANCTG CTCCTTTGCA AACAATATGA
AAAGGTTTGT NCTTTCAAAG TAGATTCTAA CAAATCGTCT GCTCACTGTG GGGTAGCAAA GNGAGAAAAG CAAATCTTTC
TATTAGTCTC AAGCAAGTCT TCAGATTTAC ACACAATCTA ATGGAGGCAT C

SEQ ID NO:554: (Length of Sequence = 331 Nucleotides)
TTATGACTTT TTTCAATAAG GCTATTGTAT CAGCCTGTNC TCTCGCTGCT AATAACGACA TACCCAAGAC TGGGTAATTT
ATAAAGGAAA GAGGTTTTAT GGACTCACAG TTCCACATGG CTGGGGAGGT CTCACAATCA TGGCGGGAGG CAAAGGAGAA
GCAGAGTCAC ATCTTACATG GCAGTAGGCA AGAAGAGCAT GTGCAGGGGA ACTCCCCTTT ATAAAACCAT CAGATCTAGT
GAGATTTATT CACTATCAAT GAGAGGCAGC ATGGGAAAAA CCTGCCCCTC ATGATTCAAT TACTTCCCAT TAGGTCCCTN
CCACAATACA T

SEQ ID NO:555: (Length of Sequence = 305 Nucleotides)
GCTGGGACTA CAGGCGCCCG CCACCACGCC CGGCTAATTT TTTGTATTTT TAGTAGAGAT GGGGTTTCAC CATGTTGGCC
AGGATGGTCT CGATTTCCTG ACCTCATGAT CTGCCCGCCT CGACCTCCCA AAGTGCTGGG ATTACAGGCG TGAGCACCGC
GCCCAGCCCA ACACATGGTA TTTTCTGTCA TTTTCATTTA GTCTTCTGGT TGCTGTGTGA TGGTCTCAGG CTTTATTTAC
ATTTCTCCGA TTACTAACAG ACTTGAACAT TTCAGCACAC TTTTTAGGTT ATTGAATAAC CCCTA

SEQ ID NO:556: (Length of Sequence = 318 Nucleotides)
CTTTTTTGGT GATTNCTAAG CTCTGTTTTN CTTATCCTAT ATATATATGT GGTTGGTTTT NATTTTAGGA TTTTAAGGTT
ATCCCTAATA AATTTTGAGA TGTGTTCCAT AGCTAGCCTG TTGAGATCTT TTNATATCAA AAGTTAATAT CTGTGGATTT
NTAATCATTC TTTCTACATA TTTAACAAAG TCATTAGCAA AATATTGAAC AAAACCTGTT ATTCATATCC TTAGATACAG
AACATCAATA TCCTGAGATA CAGTACATCA TCAAAATGTG GTCCCCAAAT GNGCAGCAAT TAGCATCATG TGGGAGCT

SEQ ID NO:557: (Length of Sequence = 349 Nucleotides)
GGAAGCAATG TGCTTCTTCT TAACAGAGAT ACTGCACTAT TCTCTATGTA TACTCACTTG ATGGCATGGT ACATGTCCTC
CAGGATGTCT TGCTCAAAGT CCTTGCCTCC ATTCACACCT TTCAGATTTT TGCGAAACTC CTAGAGACAG GCCAGTAAGT
TTTTTCCCCT TGTGTCAACA CTGAAGCCCC ACCTAAGGAA CTCTTGGGTT TTCAGTAAAT AGGACTTAGG AAAAGGTAAG
CGAAAAAACC CACTTCCCCA CCCCAGTCCC TTTTCTAGGT TTGGGCCAGC CCTTCCTTGA TTCCCTTCGA CAGAACCCCA
TCCATCATGC CCACTGGAAT CCTATGTCC

SEQ ID NO:558: (Length of Sequence = 279 Nucleotides)
GGGCCAGGCG CTGTGGCTCA CGCCTGTAAT CCTAGCACTT TGGGAGGCCA AGGTGGGCAG ATCACCTGAG ATCAGGAGTT
CAAGACCAGC CTGGCCATGT TGAAACCCCA TCTTTACTTG TAATACAAAA ATTAGCTGGG CGTGGTGGTG TGCGCCTATA
ATCCCAGCTG CTTGGGAGGC TGAGACAGGA GAACCTCTTG AACCCGGGAG GCAGAGGTTN CAGTGAGCCA AGACTGCACC
ACTGCATTCC AGCCTGGGCG ACAGAGTGAA ACTGTGTCT

SEQ ID NO:559: (Length of Sequence = 278 Nucleotides)
GAGAAAGCCA AGAGCCATCT GGAGGTGCCG CTGGAGGAGA ACGTGAACCG CCGCNTGCTG GAGGAGGGCA GCGTGGAGGC
GCGCACCATC GAGGACGCCA TTGCAGTGCT CAGCGTGGCG GAGGAGGCGG CCGACCGGCA CCCAGAAAGA CGCATGCGGG
CAGCCTTCAC AGCCTTTNAG GAAGCCCAGC TGCCGCGGCT CAAACAAGAG AACCCCAACA TGCGGCTNTC GCAGCTGAAA
CAGCTCTTCA AGAAGGAGTG GCTCCGCTCT CCTGACAA

SEQ ID NO:560: (Length of Sequence = 304 Nucleotides)
CAAATGTTAT TGGAAGTTAT CTAGAAGGCT CAGTAACCAG AACTTCCTTT CATTCTGCTT TTCTTTTTCT TTTTTTTTTT
CTTCTGAGAC AGTCTGGCTC TGTCTCCCAG GCTGGAGTGC AATGGTGTAA TCTCAGCTCA TTGCAACCTC TGCTGCCCGG
GTTTGTGCAA TTCTCCTGCC TCAGCCTCCC GAGTAGCGGG ATTACAGGCA CGTGCCACCA CACCTGGCTA ATTTTTTTTT
TTTTTTTTTT TTGTATTTTT AGTAGAGCCG GGGTTTTCAC CATGTTGGCC AGGCTAGTTT CAAA

SEQ ID NO:561: (Length of Sequence = 323 Nucleotides)
GATGGTAAAC ATAAACCCAA ATATATCTGT AATTACATTA AGTGCAAGTG AACCAAAACA GTTCAGATAA AAGACAGTAC
CTATTTCATA GCATTATGAC TATCATGAGG TAATATATGT AGAGATTAGA GTACACATGT CATATTAGGA GGTGTGCAAT
AAATGATACT TTATTCTGAA GATTAACATA ATTCATACTT AAAAGGATCA AGAACTAGAA TATTAAAAAA NTAGAATGTG
AATGTTTCTG CAAGTTTTGA TAAGAACAAG CCCATAAATT AATCTCTAAT TTGCTACATT TAGGGAATAT GGGTAATGAC
TAC

SEQ ID NO:562: (Length of Sequence = 214 Nucleotides)
TCTAATNAGG CCCTGCGTGC TGTGTCATCC CATGGCGGAA GAAGGAAGGG CAAGAGTGGG TGAGATTGTN AGCACGAGAG
AAGGCTGAAC TTCATATTTT AACAACCCAC TTTCATGATT ATNATAATCT TCGCATTTAT TTTTTTCGGT CTCTTCATGT
NCTCTAACTT TTCTCTGGGN TTTTGGTCTT TTGCTTCTTC ATTTTTAGAA GCTC

SEQ ID NO:563: (Length of Sequence = 358 Nucleotides)
TTTTTTTTGT GAGAAACAGA AGCTGAATAT CCTGATTTGA TTTGCCACAC AGGCGTTCAA TGGCTTAGCA GTGCTAAAGA
TTTATTTTTA TTTTTTTGGG CTCTGGGCTG ACATTGGAAA TTTTNCTGAA TGAGAAAAAC CATCCTCAAC CACTGTTTTT
TAACACTGAG TAACTTTGGA AATTAACTTT TGCCACAGAC TTGAAAATGT TTCTTAATGA ATTTGACCTG AAATTACAAG
GTACAACAAC ATAATATGGT AAATTCATTT CAATAAAAAC TAAAACTTAA GATTGTCAAG CTGCTTTATA TACTTNCTGT
GCTATGAGAA GTCAAAACAG CGCTGTATTG CCAAATCC

SEQ ID NO:564: (Length of Sequence = 405 Nucleotides)
ATGTACTGTG TGTTTCATAC ACATGTTTCC TTTAGTCTTA AAATCTGGCT CATGGGGTAA ACACTATTAT AATCTCCATC
CTCCAGATGA GGAAAGTGAG ACTTAGAGGT TAAGTACATT TTAGGATAAA GTAGGGTATT TCGATAAATG TTTCAAATGT
GTTTCTGGTC TCTGAGGACT ACACTCCCAG GCTGCTGGGG ATACAAAATA CCCTTTCTTT ACCATAGGAG CACTTGGGTA
GAATATTTGC AGAAACAATA AACTGGCTGA TATTTAAAGT TTTCTTCAGC TCTGACATTC TATAATTTCA TTGACCCTCT

TTGCATTTAA TTATGTTGAT TTTCCTTTCT ACCCCTTGCT TAGCTAAAAA TATACCCCTT CTNTGTCCAT GGACAGGAGG
ATGGG

SEQ ID NO:565:   (Length of Sequence = 196 Nucleotides)
CATCCACATC AGGCAAAGGC AAAGCAGGAC CTGAACTTCC CACCCCAAGC CCTACATCCA TGCAAGCCAG ACCAGACTGG
GTCAGAGGCT AGAAGGGNGC TCACAGGNTT GCCTGGGGAA GCCTCGGCCC AAAACCTGGC CCTNGCTCCA GCCCAGAGNA
CCCACCTGGG CATNAGACTT GCGGCAGCGT AGGGGT

SEQ ID NO:566:   (Length of Sequence = 275 Nucleotides)
TTGGAAAAAA GAGAAAAAAA AATTCTGCTT CATTTACGAA TGTTGCCAAA GGAGGCAAGT TTTCAACTGA AAACAAAACA
TAAAGGTCTA TGTGGATGCA GCCAAATGTT TCTCCATTTA GAAAATCATC ATAAAAGGTG GCAGCACTTT TTTTGCTTGT
TAACTATATT ACTTATAACT GGCTGCACCA ACATTTCATC TCAATTTTTG GAGTGTTTCT TCTGATCAAT CCTAAAAGCA
ACACAATCAT TTTAGAGGTT GCAGACTACA ACAGC

SEQ ID NO:567:   (Length of Sequence = 349 Nucleotides)
CGCTCGTNTG TCCCACACAA ATGTTTAAGA AGTCACTGCA ATGTACTCCC CGGCTCTGAT GAAAAGAAGC. CCCTGGCACA
AAAGATTCCA GTGCCCCTGA AGAGGCTCCC TTCCTCCTGT GGGCTCTCCT AGAAAACCAG CGGGACGGCC TCCCTGCTGA
TACCGTCTAT AACCTTAGGG GGNCCTCGGG CAGGCAAACT CATCTCGGTG ATGGCTGTAG ATGCTAACAC TGGCCAATTC
.AATGCCACAC CTACTGGTTA CCCTTTGAGG GCATTTCTCC AGACAGAAGC CCCTTGAAGC CTAGGTAGGG CAGGATCAGA
GATACAACCC GTGTTTGTCT CGAAGGGCT

SEQ ID NO:568:   (Length of Sequence = 368 Nucleotides)
CTGGTAACTT CCCGATTGGN TTTCCCCGCC TCANCCCTTT CCCAGGGCTA TTCTCCTCCC ACCTGCTGCC AGGCCTTTCC
CTGCCCATCC TGTGTTAAAT GTCATCCCGC CCCTACTGTT ATGTTCTCCA CAGCCACTTGA ACACGACCCA ACATGCCTTT
.TCACTTCAAG GTTTATTCTT CTATTAGTTT TCCCAGAGTC TGCTTCCCTA GTGTCCATCT CCCCTGCTCG AATGCCTCTT
GAGAGCCAGT GCTTGTATTT TGGTCCTNGT GGTATGGGCC TGGCACATAG TAGGCAGTCA GCAGATATTT ATGGAACAAA
CAAATGAATT TGTGTGACTA TAGTTCATTG TTCATAGTTC ATTCATAG

SEQ ID NO:569:   (Length of Sequence = 328 Nucleotides)
TGTCACTTAA TGCACAGCTG GGGCTCAGGA CACAGCTTTG CACACCCTAA GTNCTCAATA AATGCTAGCT CAGGGCAGAG
CTTTGCATAC CCTAAGTACT CAATAAATGC TAGCTCAGGG CAGAGCTTTG CATACCCTAA GTACTCAATA AATGCTAGCT
CAGGGCAGAG CTTTGCATAC CCTAAGTGCT CAATAAATGC TAGCTCAGGG CAGAGCTTTG CATACCCTAA GTGCTCAATA
AATGCTAGCT CAGGGCAGAG CTTTGCATAC CCTAAGTACT CAATAAATGC TAGCTCAGNG ACAGAGCTTT GCATACCCTA
AGGTGCTC

SEQ ID NO:570:   (Length of Sequence = 313 Nucleotides)
CCCTAAAAGG CAGAGTGTCT TCTTACCTCC ACACAACCAC GCTAGCTCTA TAGCAGTGGT TCTTAACCAG ATTGAAATGG
CTGAAATGAC AGACATATAT TTCAGAACCT GGATGGAAG AAAGCTCAAT GAGATAGAGG AGAAGGTTGA AACGCATCCA
AGTAAAGCAG TAAAATGATC CAAGAGTTGA AAGATGACTT AGCCATTTTA AGAAAGAACC AAACAGAACT TCTGGAAATA
AAAAAAAATC ACTACAGGAA TTTCATAATG CAATTGGAAG CATAATTAC AAAATAAACC AATCTGAGGC AAA

SEQ ID NO:571:   (Length of Sequence = 338 Nucleotides)

AGGAAAGCAG GGGTCTCAAT TCTGTACGAA AGAGGAGGGT GTTTTACTTC CTGGAATTAT AGAGGCCAGA GGTGTCTCTT
TTTCAATTTA TTGGGAAGGT TTATTTTAAT ATGGACTTAG AAATAAATAA CTTATTAAAG TGAAGGTTCA CCTGGAGCCT
TAGGCTGGCT GCTAAGTGTG AGTCTGGGCT GTTGAAGGGA CTGTNCTGTT CTNCTGGGTC TCTGTAGGAG TTTGAAGGAG
AAGACTGGCC CCAAAGGGTG TTTGAACAGG TTAGATGTGC CCATTGGTTA GAACTTACTT GGATAGGGAG AAGGGNTCTA
GGGCGTATCC ACAAACTT

SEQ ID NO:572: (Length of Sequence = 375 Nucleotides)
CTATTTCCAG AAGTGACAGC ACAAGTCTGA GTTGCTGTTT GGTCTGGTGA CCTCAGACAC ACTAATTTGA ATTGAAAGCT
AAGAGTAAAA ATTTNCTGGT TACAGGCGAG TCATACTCTT GCAAGTAGTT AGCAAAGGGA GGCCCAAATT CTCAAGGTTG
TTGATGGGGA ACTTGCCACT AAGAGAAGGC AGAGAGGTCC CTAGTGGGTA TATTTNCTGC CAAGCCACTT GCCAAAGAAG
AGGAACCACA GAAAGAGAGA CATCATGACC NGGAGAAAAA TGTGACTAGA CATGCTAACC TCCAGGTNTT TATATATGAC
TTGAGTCTGC TGTAATTGGC AGCAGAAATC CAAAATTTGT ATGGGTAGAC CACAA

SEQ ID NO:573: (Length of Sequence = 396 Nucleotides)
GAATCCCCAA AGGAGAGGAG CTAACCTATG ACTATCAGTT TGATTTTNAG GACGATCAGC ACAAGATCCC CTGCCACTGT
GGAGCCTGGA ATTGTCGGAA ATGGATGAAC TAAGAAGCTT TGAGGCTACC AGGCAGGGGA GTCCCCCTAC CCACAANCTC
TTCCCTGAAA GNAATNGAGG GGGAAGAGAG GTAGCAGCCA GAGCCAGGAC CCAGGGTTGG GGCTGCCGGC TGACCCGGAG
CCCCTGGAGC AGGAGGCTGG GGCAGAGGGC CCTAGGCCAA GCCCACCCTG GCACCAGGG ACAATCCTCT TCCCCACCAC
CGGCCCTCAG GCTGGCATCT CTGCCCCCAG CTTCCAGGAG GGGCCAGACA GAAGCAGCCA TTTGGCATCT CAGGTT

SEQ ID NO:574: (Length of Sequence = 373 Nucleotides)
CTAAACAGAT TTAACTCCCT CCCAGCAATC CAGATTAATT TAATATGCTT TCTTAACGGC ATTCCGCATT TNTCATTAAA
GCAAATGAAC GTCCATCCCT CTCTGATAAA TTAGGGCAAA AAAATTCATA TGTTTAGGGC ATAGGGAAGG AGGAGTTGTT
GGCTGTTAAA AAAAAGAACA AAAAAAAGTA CCGCAAATGG CGTTTCAAAG TCTAGACATC TTCATCATCA ACACAAACAT
TCCTCTTCAC AAAGGGACCT CAAGTAACCT TAGGCTGGAG GACCCACCTG CGTATGTTTT TNTTCTCATT CTTTCTTTAC
CTTCCCTCCA GGCCACCCAA CCCACATTCA GTGGCCCAAG TCACGTGGGG TTT

SEQ ID NO:575: (Length of Sequence = 431 Nucleotides)
GCCCCCATTA CCTTCTTTGC TGCTACCACA ACAAGGTATA TTAGCCCTTG AAATTAAAGA TGTTGCTGTC CCAGTTGTGC
TTGTCTTCAC CTAAATGCAT ACAGTCATAT TCCAAAAGAC TATATATTAG TGATATCTAT ATAGTTCACC CTTCATATAC
ATGAGCTCCC GTGTGTGGAG TGAACTAATT GCAGATATAA AATATTTGGG AAAAAATTTC ATGTGTACTG AACATGTATA
GACTTTTTTN CTTGTTATCA TTTCCTAAAT AATACAGAAT AATAACCACT GTTTACATAG CATTTACATT GTGTTAGGTA
TTATAAATAA TCTGTACATA ATTTAAACTG TACAGGAGAA TATGGCATAA GNCATATGTG GATACCACAC CATTTTATAT
CAAGTACTTG AGGCCTCTGC AGATTGTGGT G

SEQ ID NO:576: (Length of Sequence = 410 Nucleotides)
GATGCAAACA GCCCCAAGGA GGGAGGTGGA AAGGCCAAGG GGCTTGCCCT CCTGCAAGCG CGCCTGTAAA CAAGTCCCCG
TGGGGTTTTG GGAGGTGCGC CCACATCTAA GACTGTGCGC CCTGCACTCC CTCTGGATGG CTTGCCGAAT TTGGTCTTCG
CTGATCACCA ATTCTGGAAG GGTGGAGAGA CAGTTGGCTG GACAGCTGCC TGATTCGGCC ATGACCCTTC ACGGGTGTCT
GTGGGCCAAC ACCAAACGCC AGCCTGCTCT GCTGGCAGGG CTTCTACCTG CACAGTCCCT AGGGCTGCAA GAGCAAATGG
GGACCCTGGC TNCCGGTCCT TNCCAGGGCC TTGGTCAATG ACATCACCAC TTTCTTAGGA CAGCGTCTTG GGGAGCTACC
GGAACTTTCG

203

SEQ ID NO:577: (Length of Sequence = 405 Nucleotides)
GAATGAAAAT GGCATATTTG AACATAAACT TAGGGCAGAT TTTTACTACT TTTGAAAAAA TGTTGGAAAA TATTTCTGTA
TGAAACGTAA AACAACTTTT AATTTTTTTT AGAAGTTGAG AGGATTCTAT TTTGCAAAGC TGTATTATGA AGCTAAAGAA
TATGATCTTG CTAAAAAGTA AGTACAAACT GTAACATGTA TTCTTTTTTT AAAATCAATG CCTTTNCTCA TTTNCTTCTT
TGAAATAGGT AAAAATATGT CCTTAGTAGT TCTTCCTAAG TGTATTCTGG AATAAGGGAT TTATCACTCA GACTGATGCT
AAGGACCAGC CTAGATTCCA TTGAGATTGA AACCGTAATT AGTGTTTTCT GCATGCTGCT GCTTTATACC AAGGGCAAGA
AATTG

SEQ ID NO:578: (Length of Sequence = 406 Nucleotides)
CGCTACAGGG GGGGCCTGAG GCACTGCAGA AAGTGGGCCT GAGCCTCGAG GATGACGGTG CTGCAGGAAC CCGTCCAGGC
TGCTATATGG CAAGCACTAA ACCACTATGC TTACCGAGAT GCGGTTTTCC TCGCAGAACG CCTTTATGCA GAAGTACACT
CAGAAGAAGC CTTGTTTTTA CTGGCAACCT GTTATTACCG CTCAGGAAAG GCATATAAAG CATATAGACT CTTGAAAGGA
CACAGTTGTA CTACACCGCA ATGCAAATAC CTGCTTGCAA AATGTTGTGT TGATCTCAGC AAGCTTGCAG AAGGGGAACA
AATCTTATCT GGTGGAGTGT TTAATAAGCA GAAAAGCCAT GATGATATTG TTACTGAGTT TGGTGATTCA GCTTGCTTTA
CTCTTT

SEQ ID NO:579: (Length of Sequence = 374 Nucleotides)
GTGGGCCTGC TCTGGAGTCC ACATTCGTAA ATATTATGCT GCAGTAAATA TTAATCTTGA GAACTAGGTG ATATGGTTTG
GCTGTGGCCC ACTCAAATCT CATCTTGAAT TGTAGTTCCC ATAATCCCCA CATATCATGG GAGTAACCTG ATGGGAGGAA
ACTGAATCAT AGGGCAGTTA TTTCTATGCT GTCCTCATAA TAGTGAGTTT TCACTATATC TGCTGGTTTT ATAAGGGGCT
TTCCCCCCTN CCTTTGCTCT GCATTTCTCT TTCCGGCCAT TATGAGAGGA AGGACATGTT TGCTTCCCCT TCTGCCATGA
TTGTAAGTTT CCTGAGGCCT CTTGAGCCAT GCTGAACTGT GGAATTTAAT TAAA

SEQ ID NO:580: (Length of Sequence = 396 Nucleotides)
CAGAATAAAC ATTTACTATT AGGAGAGTCA AATCATTTAT TTTCACATGA AAGAGATTAA GTAAAGCAGA ATCTTTGATG
GTCTGCTGTG AATTCTTCGC AGTGATTGAG AAATTTCTGA AAACCACTTC CAAATCAATT ATAATATTAA GTAAACTTTG
GCTTTAGGAG TAAGAGAGAG AAGGTCTGCG TCCATGTTGG GAAAGAATAG ATATGCCCAC AATAATTAGT CTATTACTTG
TTTGAAAAGG GTGATTTCCT CGTCATTTCA AAGTATTAAG CAAATAAGGA CATATTGAGT ATGTAATTCA TGGAAAANTA
AGNAACTTCT TACAGTATGA TTCCTAAAGG ATTATGGATG CCATTATCCA TTTTGGAGTT GGTATTGAAG CTTATC

SEQ ID NO:581: (Length of Sequence = 449 Nucleotides)
CTGCTCCGTG GCTGTTTCAA AGACTGGGCG AAAGGCTGTC CGGAGGGCAG ACCAGGTGCC TTGCCGCAGA GAAAACACCA
NAGTCTCCTG TTCGCTCATA AAGAAGTTTT TGGGATGGGA GAGAATCCAG ACCATCTTGG GGCAGCCANG CCCTTGCCTT
CATTTTTACA GAGGTAGCAC AATTGATTCC AACACAAAAC TCCTTCCCCT TTTTAAAATG ATTTCTGTTC TAATGCCATA
GATCAAAGGC CTCAGAAACC ATTGTGTGTT TCCTCTTTGA AGCAATGACA AGCACTTTAC TTTCACGGTG GTTTTTGTTT
TTNCTTATTG CTGTGGAACC TCTTTTGGAG GACGTTAAAG GCGTGTTTTA CTTGTTTTTT TAAGAGTGTG TGATGTGTGT
TTTGTAGGAT TCTTGACAGT GCTGTAAATAC AGACGGCAAT GCAATAGCC

SEQ ID NO:582: (Length of Sequence = 261 Nucleotides)
CCAGCAGGTC GTACTTGCAG TGGCAGGGTC CCGGACAGGG CCGCGTCAGT GTGCTGAGCT TGGTGGCGGG CACTGGCTTC
GACAGTGGCA TGACCCGAGG GAAGTGGCGG CGCGAGGGCC TCAGGGGGCT GAGCACGTCC TTGCAGAGGG GCGGGAACGG

204

GTNCTGCTGG TAGTGGCCAA ANACCTCGAA AACAATGGGC TNGCTCTTGA TGTACAGGTG GCGTTTATTT TCATGGATTT
ATACACACTG GAAAAGCCTC T

SEQ ID NO:583: (Length of Sequence = 399 Nucleotides)
CCCAGGCCAC CATTTAAAGC AGCCATTCCT GCCAAAGAGC CAACATTGAG GCCAGCCGTT GCTCCAGCTA ATGTCTGCAG
GGCTCCAAGT GAGGCTATGG GGTTGACAGA ATTACTGCTG CTAGAGCTAG GTGAGGACCC TGAACTAGTG AGCACGCTGA
GGGGACTGCT GGATGTAGTG AGAGCATTGG TACCACTTGG TGTGTTCTGA NNTGCACTAG CTGCAGCAGC TAGTGCAGCN
AAATTCTGTA ACTGCATTGC ATTCAACCCT CCCATTGGGT GGAGGCTGCT CAGGGTGTTG AGGTTCCCAG AGGAGGCAGT
CTGCTGAAGG AGTGCTAAAT ACTNGGGTCC AAGAGTATTT AGACCAGCAA GGTTTCCCCA CACAGATGCT GCGCTGATT

SEQ ID NO:584: (Length of Sequence = 441 Nucleotides)
GTTGTTTTTA AGGATTAAAT GAGATATTAC ATGTAATGTG CTCATCCCAG TGCCCAGCAC ACAAGAAATG TTCAATAAAA
TAGGAGGCAT AATTGTCCTG TTTGAATACT AGATAACCCT TTTAATGGAT ATTCTACAAT TATGAATCTA AGGTGCTTTG
GAGGAGCCTA GGCAATCTAT TCCAAAATTA AATGTAAGGA AGGTACATGA GTAAGGGATG GAGTAGGCCC TGGACCAACA
CTAGAGCTCC AAATTTCCTA AAAAGCTTGA GCTTCTTTTA CTGTGGCCAC GCCTATAATG GGAATAAATC TGGTTCTTCA
AACAGTCCCT CCCCTCTCTA AGCTCTGCTG GGGAGTAGAG ACATCAGCAG GCTGGTTCTG TGNTTAGCTC CTCCCCATCT
TNGACTCTCA TCCCATTCCC TCTTTCCTAC TACCCATTCA G

SEQ ID NO:585: (Length of Sequence = 326 Nucleotides)
GAAATGCAGG TTCAGCTATT TNCTGCTTGC AGAGTCCAGT TAACAAAAGT GAGTNCTGGT ATAAAGAAAG TNATTTTTTT
TTTTTAAATT ATTCCAAAGC TAGCTGAGGG GAACAAGTAC AGGCTTCCTG CCTAGGGGTA TCACTTTGCT TTTGGAGCAG
GAAGTAAGCA CTTTTAAAGG GGGCTTAACA TGAATGGCAC ATGGGGTCGG GGGAAGTAAG CAAGTGCAGC ATCTACATGT
TAGTTTGGTA CCTTATCTAC TAGGTAGTCA AGGTGGTGAC TGCCTGTNTC TTTGTGGGGC ATGTGTACTT TGGGGTTGTA
AATTGG

SEQ ID NO:586: (Length of Sequence = 431 Nucleotides)
GAACGAAGGA AAAGCATCAA AACCTACAGA GAAATTNTTC AAGAAAAAGA GCGGAGAGAG AGAGAGCTGC ATGAAGCATA
TAAGANCGCT CGGTCCCAGG AGGAGGCAGA GGGGATCCTT CAACAGTACA TTGAGAGGTT CACCATCAGT GAGGCTGTTC
TCGAACGCTT GGAGATGCCA AAAATTCTGG AAAGAAGCCA TTCAACAGAG CCAAATTTAT CCTCCTTCCT GAATGACCCC
AATCCCATGA AATACCTGCG GCAACAGTCA CTGCCTCCAC CCAAATTCAC TGCCACTGTT GAAACCACCA TTGCTCGTGC
CAGTNTTCTG GGATACCAGC ATGTCAAGCA GGCAAGTGGG GTCTNCAAGC AAAACTTGTC ACTTCCCAAA AGCAAGTGCC
TATGCTTGAC ANCCCAGGCC TTACTTCCCA G

SEQ ID NO:587: (Length of Sequence = 338 Nucleotides)
CTCAAGCAAT TCTCCCACCT CAGCCTCCCA AATAGCTGGG ATCACTGGCA CAAACCACCA TGCCCAGCTA ATTTTGTATT
TTTTGTAGAG ACAGGGTTTC ACCATGTNGC CCAGGCTGGT CTCAACCTCC TGGGCTCAAG CAATCCTCCT GCCTCGGCCT
CCCAAAGTGC TGGGATTACA GATGTGAGCC ACCGCATCCA GCCCCACACC CTCATTTATA CCAATTACCT GCCCAGTAAC
TGTGGACTTT TGCTTCCTCA CCCCTGCTCT GATCTGGAAG GAGAGGGATT ATGTTATAGC TTGTCAGCAC AGTCCCAAAG
TTCAATATTT CTGCGGGC

SEQ ID NO:588: (Length of Sequence = 277 Nucleotides)

AAGAACATTT AAGTAGTTCA TACAAAGAAA TATAAATTGT NCTTAAATAT ATCAAAATAT ACTCACCTCA TTCATAGTAA
AAGAAATAAA AAACTGTGCT CTGATGACAT TTTTCATCTA TGAGATTTAC AAAGNTCTAA AAATTGAGAA TATACATTTC
CTATTGCCTT TGGATGGCAA TTTGGCAGTA ACTATCAAAA GTATAAATAT CTATACCCTT TGAGGTGTCA ATCTCATTTT
AAAGAATTTA TTCTTCAGCT ATGTACATAC ATGTAGG

SEQ ID NO:589: (Length of Sequence = 353 Nucleotides)
GTAATGAATT ATAAGAATCT GAATTGAGAG CTAAAATATC TGGGTTGTAG GCCTACTCTG CCACGNTTTT NTTATTTGCA
AATATTAGAG CTGAACTAGA TGACCTCAAA GGCTCTAACC AACTCCAAAA CCTACAATTC AATGGCTGAC TGATATACAT
TGTATACTCT TTAAAAACAA TTAAAATCAA AGANGNTAAT AAATGTGTCA TGTATTATAC AACTATTATA CACGTGTGTG
TGTATATATA TATATNTNTN CACAGAGAGG AAAGACATCT ATACATAGNC ATAACCATCA AATCAGTCAG AATTTCCATC
AGACACTTTN CATTTCCCAG GTCCATCAGA TGG

SEQ ID NO:590: (Length of Sequence = 364 Nucleotides)
CTCATATACA TAAAAAGTGA TAAGAATCCG AAAAGACAGC CAGGGGAATT AAATGCCAGT TGGGGCCAAC GGGGCCCTGA
TCACGGAAGA GGGCGCCCCC AGCTCTCAAT CTTCACACAA TCCCTGCACC CAGGGTCACA GAGCATGCGC AGGTCCTTCC
CGCCCACTTC CGGGGCAACT GCCAACCACC GCGCAGGCTG AGCCCCAGGC AGGAAGCAGC CCACTTGGTG GGGTTGGGGT
ATGAGTCCTT CCTCGCGGGG GCTCGGTGGG TCCTGAGTAT TCTTTGGCCG GATTTNCTGA TCCGTCTGCT CCAGGTGAGC
TNGGGAAGGC CCCAGGAAAA GGCCCANAAG GGCCTTTGCC AGGG

SEQ ID NO:591: (Length of Sequence = 311 Nucleotides)
GAAAGGGGAA TAGGGAGTTA ACGTTTAATC AATAGAGTTT GGGAAGATGA AAACGTTCTA GAGATGAGTG GTGGTGATGC
CACATAACAA TGTGAGGGTA CTTAATACCA CTGAACTGTA TGTTTAAAAT GGCAAAAAGG GTAAATTTTA TGTTATGTAT
ATTTTACCAG AATTTTTTTT TTAAAGCTTA CTGCATGGGG ACCAAGCGTG GTGGCTCACA CCTGTAATCC CAGCACTTTG
GGAGGCCNAG GCGGGTGGGT CACTTGAGGT CAGGAGTTCG AGACCAGCCT AGCCAACATG TTGAAACCCC G

SEQ ID NO:592: (Length of Sequence = 358 Nucleotides)
ATTTTGGTTT CTACCCATCA TCCTCCTCTC AAAGGAACCA GGGGTCCTTG GGGATTTGGC TGATGCCAGG GGATGGAGAG
TGTCAGTTGG NTCTGAAGGG GAGGCTCGCA GCATGTGTGT GGCAGGTCAG ACAGACCCAA GAGCCAGCTT GGTGGGGCAT
CCCTGGCTAC CCTGGGGACA CAGTGAGCGC CGAACTAAAT AACATCAGGA ATGGNTCACA ACGCAATGAG TAAGGGGAAT
CTGAGTCTAT AGGGATACAG ACCCAGAGGT AAATNGCCAT GGCCACCCAC TTTCCTACAG GAGAATGTGA CTAGTTGAGC
GTAGGAACAT GGGAACAAAT GGTAGAGGTG GCTGACAT

SEQ ID NO:593: (Length of Sequence = 354 Nucleotides)
GACAGACTGA AGGAATATAT GCAGCTTAAT TTAACATTTT TTGAAATTTT ATATTGCAGA AGTTGTACAT ATTTNCTGTT
GTGAAATTAG AAAGANTTGA CAGGCAAGGA GGGTGGTCTA CAAAGCACTC CATAGATCCA CCATACTGAG ACAATGCTTA
ATGCTTTGAT GGATTTATTT ATTTNATACT TTCTATGCAT ATGCATGTAT TGTATAAATA CGNATGCATG GTTAAATAGA
AATGGTTCTC CTTGGTGTTC TGTTTATCCA TTTATTGTTG TGAAGTAAAT CCCCAAAGAG GTAGGTTTGC TTTTGCCTGA
GGAGTCTTTT GCTACATACT GGCTGTACAT AATG

SEQ ID NO:594: (Length of Sequence = 319 Nucleotides)

206

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GAACATGGCC GTGAACTGCT CGGAGATGCG CTTGAACAGC TCCTGGATGG CCGTGCTGTT CCCGATGAAG GTGGAGGACA
TCTTGAGGCC GCGGGGCGGG ATGTCACACA CGGCCACCTT CACGTTGTTG GGGATCCACT CCACGAAGTA GCTGCTGTTC
TTGCTCTGGA TGGCCAGCAT CTGCTCGTCC ACCTCCTTCA TGGACATGCG GCCCCGGAAC ACGGTGGCCA CCGTCAAGTA
GCGGCCGTGG CGCGGGTCGC AGGCGGCCAT CATGTTCTTG GCATCGAACA TCTGCTTGGG TGAGCTCGGG CACGGTCAA
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SEQ ID NO:595: (Length of Sequence = 370 Nucleotides)
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GAAGAATANA AAGAAAAATC CAAAATGAAG AGTATTATAC AAGACAACTA GTCAATAGTC TTCAAAGTGT CAAGGTCATG
AAAAATTGAG GAAGCATCCC AGACTGAAGG GGACTAAAGA AAAGTGACAA CTAAATGTAA TGGGTGATTC TGGATTAGAT
CCTGGAATTG AAAAAGAACA TTCATGGAAC AACTGACAAA TTTGAATAAG GTCTGTAGAT CAGTAACAGT ATTGCATCAG
TGTTAATCTC CTGGTTTAGA TCATGTCCTA ATGGAAATGT TTTGTACTAT TTTTTGTGGA CTCTTAAGGA ATGTGGGTGG
AGGACACGGA TGAGACCTAC TTGCATCGAC AACAAGGCGT TCTACGGACA
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SEQ ID NO:596: (Length of Sequence = 335 Nucleotides)
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CCACAGAGCC CCAACTCCCC CCACAGGAGC CAGCTCCCCC TCGAAGGCCT GGAGCAGCCG GCCTGTGACA CCTGAAGCCG
CCAGCTCGCC ACAGGGGCCA GGGAGCTGGA GATGGCCTCC AGCGTCAGTG CCAAGACTGA GCGGGCCCTC CAGTGTTGTC
CAAGGAAATG TAGAATCACT TTGTAGATAT GGAGATGAAG AAGACAAATC TTTATTATAA TATTGATCAG TTTTATGCCG
CATTGTTCGT GGCAGTAGAC CACATCTGTT CGTCTGCACA GCTGTGAGGC GATGCTGTTC CATCTGCACA TGAAGGACCC
CCCATACAAG CCTGT
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SEQ ID NO:597: (Length of Sequence = 336 Nucleotides)
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CTCCTGAACA TCACAAACTT GGTTTCTACC TACCACACGA GTAGCCAAAA GAAAAGAAGC ACTAATAGAG AAAGGGGTGT
CTCACACCAG ACAGAGGACC TCTGCTGTCA ATTAGATCCA GTATCATGAC CTAACTTTAA GTGTGGAAAA GAGTTCAGAT
CTCTGAGACA CTGTGAAGAA ATGGATGGCT CATGTAACAT CTCTGATCCC TCAGTCCCCA ACCCTGGACG TGTTTCATTT
ACAACATTCA TAGGAGTTAA CTTAGCAGTG TTGCAAGTTA AGGTTNCAAA CCAAATTATT TAATCAGTGT CCCCCCAATA
AAATCACTTA TCCCATTTTA TTGCTAGTTT AGTTTT
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SEQ ID NO:598: (Length of Sequence = 402 Nucleotides)
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ACCACTACAC AATATATCTA TGTAACAAAA CTGCATTCTT ACCCCTTAAA TTCATACAAA TAAAAAAAAT TAAAAAATAA
ATAAAGTAGG ACAATCCCCC AGATAAATAA ATTAATAAAT AAATAAAATAA ATAAATAAAT AAATAACTTT AGCTCTTGCC
TTCTCCTACA CATAAGTTAA TGTCTGATGG GGTTAGTGGT TATGCTTCTG TAAACTATAA TCAGATGTAC TCTTGCACCC
AAACTTAGAT GCGATTTTNC GTATACTGGA ATCTTTGCTA CCTGTATATA AACTGTGGAA CTGAAAATGC TGCATTGGGA
GCAGTCTGAT AGGNTCTGTC CTAAAGGGCT ACTCTGAGGG GCTCTAGGGG CTTCAGTCTA CAGGCCCCCA GGGAGGACTG
CT
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SEQ ID NO:599: (Length of Sequence = 369 Nucleotides)
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CTCAACAAAG TTTGGATTTT NTCCACGATG ACTCCTTGGG TGAATTTTTA ATCAAGTTAT TTCAACCATT TTNCTCATAT
ATTTCGTGCA TCCCTATTCT GGTATTCAGT GAATACATGG GAGAGGTATG TNATTCTCAG CTCCCACAGC CCATAAGTCG
GGGAACCAGG ACTTCATTCC CCTCTGCTCT AACTCAGACT GTGAGGTCAT TGAGGGCAAG ACTGATGAAT TGTTCCTCTT
CCTATCACTG GTGCCAAGCA CAGTAGTTGG CATAAAGAAG TTACTCAATA AAGAGGGGGT GAATTTAATG AAAGACAGAG
GAAGGNGGGA CCTGGGGGAA GAGGTGGGCA TAAAGTGANG GTACAAACA
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SEQ ID NO:600: (Length of Sequence = 342 Nucleotides)

207

CCGCCTCCTG GGTTCAAGCA ATTCTCCTGC CTCAGCCTCC CGAGTAGCTG GGACTACAGG CGTGCGCTCC ACCACCACGC
CCGGCTAATT TTTGTATTTT NAGTAAAGAT GGGGTTTCTC CATGTTGGCC AGGCTGGTCT TGAACTCCTG ACCTCAGGTC
ATCCGCCCGC CTCGGCCTCC CAAAGTGCTG GGATTACAGG CGTGAGCACN CGCACCCGGC CAGCTGCTTC TATTTTAATC
TGAACTTGGA AACACCTTCC TACTTTAAGG CACAGGATCA GGGTAAGAAC CCACATGTAC GAGCTAACAG AGCTGCACTT.
CAAATTTACT TAAGTTAATT AA

SEQ ID NO:601:   (Length of Sequence = 319 Nucleotides)
AGTACTATTC TGCCATAAAA AAAAGAATGA GATCCTATCA CTTGCAACAT CTTGGATGGA ACTGGAGGTC ATTATGTTAA
GTGAAATAAG TCAGGCACAG AAAGAAAAAC TTTGCATATT CTCACTCATT TGTGAGAACT GAAAATTAAA ACAATTGANC
TCACGGAAAT AGAGAGTATA ATGATGGTTT CCAGAGACTG GGAAAGGTAT TGGGTGGGGG GCAGGGAATG GGGAAGGTTA
ATAAGTACAA TGCAATGAAT ACGATCTNGT ATTTTACAGC ACAAAAGGGT GGCTATGGTC AACAATAATT TATAGTACA

SEQ ID NO:602:   (Length of Sequence = 334 Nucleotides)
CACCCACAGA CTGCCAAGTG GGACAACTTT CTGGCTTTTG AAAGGCTCCT TCTTCAGAGC ATTGGGGAGT CAGCAATGTC
CGTTGTGTTA AATCAGCTGC TGCCCATGAT TAAGCCTGTA ACCCAGAGAA CCAACGAGGA CTACAGCCCT GAGGAACTGC
TGATCCTTCT CATATATATT TATNCTGTCA CTGGAGAGCT CACGGTAGAC AAAGACCTGT GTGAAGCAGA AGAAAAAGTC
AAGAAAGCAT TGGCTCAGGT CTTCTGTGAG GAATCTGGAT TGTCACCTTT GCTGCAAAAA ATTACGGACT GGGGACTCTT
CAATTAATCT GACA

SEQ ID NO:603:   (Length of Sequence = 410 Nucleotides)
TTTCACCATG TTAGCCAGGA TGGTCTCGAT CTTCTGACCT TGTGATCCGC CTGCCTCGGC CTCCCAAAGT GCTTGTATTA
CAGGCGTGAG CANCCGCGCC CAGCCAGGAT TATTATTTTT TAAATCAGAG ACACTGAGTA CCACCTAAAG GGACTTAAAT
TATGCAATTG GAATGAAACT AAAGTGAATT GAACATTTAG TTTCACTTAG ATTTTATTTT TCCTGCCAAC TGTCATATGA
GAGTTTGAGA GGGAGCCCAG ATTAGACTTA GAGAAAAATA AATAAATTAC ATTTTATCTG CACACATGAA TTCTAGAGTG
AGTTAAATTT ACCACAGCGG GGCATATATA TGTATATATA TGATACCNTG TTTTTATATA GCTCCNTATA GTTTTAAAAG
CACTTTGTAC

SEQ ID NO:604:   (Length of Sequence = 399 Nucleotides)
TCTCTAAGCA AAAAGAAAAT GATGAAAGAA GCAAACTTGG AGCATCAGAA AGGAAGAAAG AACATGATAA AATGAAAATA
TGAGCTCCTA TTATGAACAT CGTATTACCA TTCATTGTGA AACTTAATCG TATATTTATA TATAAGCATC CTTCAGAGAT
GCTGTGGGTT CAGTTTCAGN CCACTACAAT AAAGTGAATA TAGCAATAAA GCAACTCATA TGAATTTTTT GGTTCTCAG
TGCATATAAA ATTAANCTTC ATGCTATACT GTAGTCATTT AAGCATGCAA TAGCATTATG TCTAAAAANT GTACATACCT
TTATTTAAAA ACGCTTTTAT TGCTTAAAAN AGGCTAAATG GCCCATCTGA GCCATCGGCT TTTTTCCTGG CAGAGGGGG

SEQ ID NO:605:   (Length of Sequence = 372 Nucleotides)
ATGCCTTAGA AATCCTACCA CCTCCCAGAA ATGATAGTTA TGGAAATTAA CATGGCATGT CAGATATGGT TCGCTGATGC
CTTGCTTTAG TTCTCAGAAA TAAGGCTTTA AAAGACTGGC ATGTTTCAGG ATTGCTGTCA GGAAATGATA ATTTAAAAATA
CCCAAGAGTA CACTAAGAAT TATGGAAGCA TCTGTGAAAC TAATAAGCCA GTGGACATAC TGATTTTTAC CAATGTGTCT
ACATACTATA TTAAAAAACT TCCTACAAAG TATTGTCCCA ATTCAGTTCA TCTGAGGATG TGAAAACACT ACAGTGTACC
TTAAAACATC ACATTCACAA CCCTGACAGA CTGAAATAAA ATGAAATTAG GG

SEQ ID NO:606:   (Length of Sequence = 399 Nucleotides)

208

TGCCTTCCTT TCTTCAATTC GAGACAGCAG TATCATTAGT GTTGTATAGG TTATAATTAA ATCTAAGTAG TTCTTTGTTA
AATCAAAGTT TACAGTAATA TCAAAGAAGA CTTGGCAAAC GTCAATAGTA TTCAGCAATT CACAAACATG GTCCTTAAAT
TCCATAACAT CTACAAATGT GAAGTAAATAT AATGCCAGAT TTTNCAGAAT CTCTGATTTT CCTTTCTGTA GTTGTGCAAG
CTGTTGATTG TTGTTGCGGG TTTCTACAGC AGGGAATTTT CTGACTATGA ATTTCACAGC AGATTCCAGG NTTTTGTCGA
TAAGATAGGA TGGNTTTGCC NTGGGGNCTC CACATGCCNT TCTTGATGTT GTAGAGGCGG GTGAGCATGC CGACGGCCC

SEQ ID NO:607: (Length of Sequence = 412 Nucleotides)
CTGTACCCTT ATAAAGAGTG AAAGCCCTGC CCCCTTCTCC TATAGAACCC CTAGCAAGGA GACTGGAAGA NTCAAAAACA
ATCCACCCAA AAAATGGCCT GCAGGGACAC AGTCCCAGAG AAAGAGACTA TGTACAACAA GGTACAGTAA GTAAGACCTG
CCCACACACA GGACTTCCAA TCGACTTCTT AGTGCTTACT CCTACAGATG AACAGATCAA CCAGGGCCAC CAGATGCTCC
AGGAAAGACA GGAGTCCAAA AAGAAAATTC GGTAAGTTTG AATATATTTT GAGCAAATTT TCAGTTCTGT TGAAGTATTG
GGGGGACATT CAACAGTGAG TAGTAGTTTA GGGGGAACAG CTGGCACCTC TGGCAGTCGC CTCAGAGGTC AANCCAGCGT
NTAGGTTGCT TT

SEQ ID NO:608: (Length of Sequence = 419 Nucleotides)
ATGAAGGCAG CTGAACTCTC CATCAAGTTT CTGCCTCCCC AACGTAATAT GGAAGTCGTT CTGGCTGTAG GACCCCAGCT
GATTGGAATT GGAAAGCACA GTGCAGCTGC AGAGCTCTAT CTGAATCTGG ACCTTGTCAA GGAAGCAATC GATGCTTTCA
TCGAGGGTGA GGAGTGGAAC AAGGCGAAGG TTGTAGCTAA GGAGTTAGAT CCCAGGTATG AAGACTATGT GGACCAGCAT
TATAAAGAGT TCCTCAAGAA TCAGGGCAAA GTGGACTCGC TGGTGGGTGT GGATGTGATA GCTGCTTTGG ACCTGTATGT
GGAGCAGGGC CAGTGGGGAC AAGTGCATTG AAACAGCTAC CAAGCAGAAC TACAAGATTC TGCACAAGTA TGTGGCTTTG
TATGCAACTC ACTTGATCC

SEQ ID NO:609: (Length of Sequence = 337 Nucleotides)
GGTGGAAGTT GTAGTGAGCC GAGATCATGC CACTGCACTC CAGGTTGGGT GACAGAGAGA GGCTCCATCT CATAAAAAAA
GAAAAGAAAA AGCATTTCTG AAAGGAATAA AAAACAAATT GATAACATCC CCTAATCTCT AGTTGTTGGG ATGTAGTATC
CTTCATTTGA TCAGGAAATC ATATGATTGT CCTTAAATTA TTAAGTTGGC AGAATTTGTG TGGTTTCATA ATGATGCTTG
TAAGATGATA TTNTAATGGA AATGTTTTAG ACTATATCTN TTGTNGTTTT TNCTGCTGTN TTTGTGTAAG GCTTAAANCT
ACCCCCTTTA AAAACAG

SEQ ID NO:610: (Length of Sequence = 441 Nucleotides)
TAAGCCAGAG ACATTTCACT GTATTAATCT TGATACTAAT TACTAAGGCT TTTCTGTGGA CATTAAATTT GATCTGTTTA
ATTGCAAATA CAATAAAAGT CGTGATTTAT GCTTAATGTT TCTGCTAGGC TGATGACATT TTGAAAATGG CACTTATAGC
CTGGTTTGTC TTGGTTACAA CTTTTGTGGC TCCAGATGCT AAAAAAAAATC TAATTGAGTA AGTAAATAAT GCAGCTAAGC
GTGCCTCTCT CGCTTCCGAA AAGTTTTTTC TACTCCTTTT TCTCCCTGGA GAGGCCCTGC TGCACACTGA TGCTGATCTA
AGGAAATGCC TTTGCTTCTT TGCCACTGAG CAATGTTAGA ATCACTAGGA GGGCAGGGCT ATCCCACTGG TCACTCTGTC
CCAGCATATC TACCATGAAG TCAGCAGGGA CTACAAACTC C

SEQ ID NO:611: (Length of Sequence = 344 Nucleotides)
TTTGGTACAG TAATTAGGTT TGGTTGATTC GGTTATGGGG GTATACACGC ACATGCAAAC ACACACAGGG TGTGCGTGTG
TGTTATAACG GGCATATACA CATGCACACA TATACACATA TGTTATATAG GATGTGTGTA TATGTGTGNA TATATATAGG
GTGTGTATGT ATCCTATATA TGTCCATATA CATGTATATG TNGTATATAT ACATGTATAT GTACACATGT GTGCATATGT

GTACATATAT GTGTATATAT GTATATATCC CACATCTCCA ATTTNCCTAT ACGTATATAC ACACATATAT GTTATATAGG
GTGTACAGAT ATAGGATATG TGTG

SEQ ID NO:612: (Length of Sequence = 384 Nucleotides)
TGATGACCAT AAGCCCATGC TTTTCATAGA TGTTTAAGGG TTAAATGAGG TAATGCATGT CGAGTGCTCA GCCAACTGAG
ATTCAGGAAG CGCTCAATAG ATGCTGGCTG TCATTATTAA CTGAGTAAGT AATCCTTTTC CCACAGAAGC AGTAGAAGGC
TGACGATGTG TGTGAAAAGG ATGGATACAA TTCCCTGGGC CACAAATAAA GGTTTTTTTG GTTGTTGTTG TTGTTTAAAT
GAACTGAAAT GAGTTTGAGA GATTCATATA TTATTTTACA ATACTTCTTA ATGCTAGTTT AAAAAGTTCA ACATTGTCAT
TCTACTCCAC TTCCGTATGA GATAAGTATA TGAGGGNGCT TAATTCCCCG NTAAACTAAG CAAG

SEQ ID NO:613: (Length of Sequence = 342 Nucleotides)
TATTTATTTT TGTGGGTGTC GACTTCCTAT GTGGGCTTTT TGGGTGACAC TCCCTTAAGG GTTCAGTTTG ACAATTCTNA
GAGTTGTCCT GCAGTTGGAG GCCACCAGAG GTATCTAAGC TCCCTGCTTC CTATTTNATA ATCCTCCAGC CCCAGCAGGT
CCACTCCTGG TTCCTGTGTG TTTGGCCCGG GCACAATCCC CACTGCTTTG CTAGACGTGC TTTCTGCCAT GTGGCTTTGG
GCCTAGAGCT TGTTGATAAT TGCAGCTTGT GGCAGTGGAA ATATGGCTGA ATGAGCGTCT AAACCCCTGG GTNGGGGGNC
TNAANTNCNN GGGTTTTTAA AA

SEQ ID NO:614: (Length of Sequence = 393 Nucleotides)
CAGTGTTATT AACAATAGCC AGGAGGTGGA AGCCACCTAA ATGTCCATCA ACAGATGGAT GGATAAATGA AATGTGGTCT
ATACATACAA TGGAATATTA TTCAGCTTTA AAAAAGGAGC AAATCCTGCC ATGTGCTACA ACGTGGATGA ACCTTGAGGA
TGTTTTGCTA AGTGACATAA GCCAGTCACA AAAAGACAAA CGCTGCATGA TTCCATTTAT ATGAGGAATC TAAAGTAGTC
AAACTCTTAG AAAGTAGAAT AGTGGTTAGC AGGGGTTAGG GGGAGGGGAA AAAGAAAAGT TACTGTTTAA TGGCTATAGA
GTTTCAGATA TGCAATACGN NAATTTCTGG GGGATTCTTT TGCACCACCA ATGTGCACCG TATAATTCCA CTT

SEQ ID NO:615: (Length of Sequence = 310 Nucleotides)
ATTATATACA TTCCTTTACT GATTTTTTAA AATTGTGTCA ATATCTTCAG TGAACTCTTA ACAATCTGGG GAACTGTTTT
CCTCAATTAC CACTTCAGCA ACGTTCATAC GAAATCAAGG CTTGCCTTCA TGTCAGTGTC AGGNTCAACT TTAACTCGAA
GGTTTGTGTT TGTCTCTAAC ATCTTCAGAG TGAGCTTTAG GGATGCCTGA AGGATGGACA GTACAAGCAA GCAGCTACTT
CCATGATACA GTGGGAAGAT AAAAAGGCCC ATTCAGTCCA GCCGTGACCT GTAAATCCAG CTTGCCCTCC

SEQ ID NO:616: (Length of Sequence = 266 Nucleotides)
GAGATGGAGT CTCGCTCTAT CACCCAGGCT GGAGTTCAGT GGCACGATCT CGACTCACTG CAAGCNCCGC CCCCCAGGTT
CACGCCATTN TCCTGCCTCA NCCTCTCGAG CAGCTGGGAC TACTGGTGCC CACCACCACT CCCAGCTAAT TTTTTNTATT
TTTGGTAGAG ACGGGGTTTC ACGGTGTTAG CCAGGATGGT CTCGATCTCC TGACCTCGTG ATCCACCCGC NTCGGGCTCC
CAAAGTGCTG GGATTACGAG CGTAAG

SEQ ID NO:617: (Length of Sequence = 376 Nucleotides)
ATAATAATGA AAAGTGAAGG GTGGGGGTGC TGGCCACCTC CCATTTCTTT GCCTGGGTGG TGGTGACCAC GGCGCCCTTG
TGTCCTTTCC ATTGGTTACT GAGGACCATT GCCCTCATGG GCCCAGGCCA CAGGCACCCA CCTGTNAGCC TCACCTGCCA
CCTCTCTCCA TGTTGGCTTN TTGCCCCTGG GGCTGGCCTG GGCATGGGGG AGCTTNTNTC CCCGACCAGG GGCTTGGCCA
TGTNTCCTTC ACAANCCCCA CTCCCCGCGG ACTGAGCCTC CACTCTCTGC TGGGCTGAGG GCTCTGTGGT NGCCCAGGAG
CCCTCCCAGC CACGTGCCAG CCCATCCCAT CATCAGCACT TGGTTTTAAG CTTCAA

SEQ ID NO:618: (Length of Sequence = 352 Nucleotides)
GCCCATCCTG GCTAACACGG TGAACCCCGT CTCTACTAAA AATACAAAAA ATTAGCCAGG CGTGGTGGCG GGTGCCTGTA
GTCCCAGCTA CTTGGGAGGC TGAGGCAGGA GAATGGCATG AACCCGGGAG GTGGAGCTTG CAATGAGCCA AGACTGCGCC
ACTGCACTCC AGCATGGGCG ACGGAGCAAG ACTCTGTCTC AAAAAAATAA TAATAATAAT AAAATAAAAA GTTTGTTAGT
ATTAGCAGAT ACATATTACT AGGTACCCCC CATGCTCAAT GAAGTGTTGG GNTACTCTNA AAAAGTGTCC AATCTTACAG
GTGTGACTTC CTCTGGAACT GCAAATTCTT TT

SEQ ID NO:619: (Length of Sequence = 359 Nucleotides)
AAAAAAAACG ACCCCCACAA GGGGGAAGGC CCCAAGTGGG CCCCTGCCTG TNGTNCTCTC TGGCTCCAGA GATGTCTGCA
TAGGCCTCAG CTTCTCACTG GCCAATCTCC TCTTCATGGG CACCAGCCAC TGCTAAACAT CCTTCCCTCA CTTCTTGTGT
AAGCTTGCTC CCCTGAGCCA CAGGTTGCAC ATCTAAACCT CAGCTCCAGG GAAAGGAAGA ACCAATGGAA GTGCCAGAGT
CCTGGGGCAA GCCAGAGCAT CACCTGTCAG CAAACCTCTG CTGGGCACTC TAAGCAAGCA CAGGACAAGN CCCAGAGTTT
AGTGTGTCCA GTATCCAGCA TGGNGACAGC ACATGCATT

SEQ ID NO:620: (Length of Sequence = 447 Nucleotides)
CTCTCTCAGC ACAGCCTGGG GAGGGGGTCA TTGTTCTCCT CGTCCATCAG GGATCTCAGA GGCTCAGAGA CTGCAAGCTG
CTTGCCCAAG TCACACAGCT AGTGAAGACC AGAGCAGTTT CATCTGGTTG TGACTCTAAG CTCAGTGCTC TCTCCACTAC
CCCACACCAG CCTTGGTGCC ACCAAAAGTG CTCCCCAAAA GGAAGGAGAA TGGCAGCCTC CACATCTCGG GTTCAAGTGA
TTATCCTGCC TCAGCCTCCA AGTAGCTGGG ATTGCAGGTG TGCACCACCA TGCCTGGGAT AATTTTTTGT ATTTTTTAAG
TAGGACACGG TTTCACCATG TTTGGCCAGG CTGGTCTTGG AACTTCTTGA GGTGTAAATG ATCTTNCCCC ACCTTNTGCC
TTCCCAAGTG CTTGGGATTT ACAAGGTTTT AAGCCACCCG AATCCAT

SEQ ID NO:621: (Length of Sequence = 237 Nucleotides)
CAATACCCCT GGNTCCTGGG GCAGGTGTTC TGGGATCCTG GACAGGAGGG TCAGGTCGAT TTTAACCCAG AGAGACCTGA
TCTCATCACT GTCCTTTAGA GGGGAGAGAA GTTCGTNCCG GCCAAAGGGG ACCAGTGTGT AGAACTGCTC CTCCAGCTCC
TTGGCGATGT CACTNGTGGT CCTGGCGTTN ATGGAGCCTA CAGGGGCCCT AGGACCACTG CCCCCNTTGG CAGCGGC

SEQ ID NO:622: (Length of Sequence = 247 Nucleotides)
AGAAGGTCAA TAATAACAAA CTTCTTCAAG GTAAAGCAGG ATGTTGGAAA CCATTGCAAG GAAGCTAAAA ACCTTGAAAA
AAGATTAGAA GAATGGCTAA CTAGAATAAA CAGTGTAGAG AAGACCTTAA ATGACCTGAT GGAGCTGAAA ACCATGGCAC
GAGAACTACG TGATGCATGC ACAAGCTTCA ATAGACAATT CGATCAAGTG GAAGAAAGGG TATCAGTGAT TGAAGATCAA
ATAAATG

SEQ ID NO:623: (Length of Sequence = 315 Nucleotides)
AATTTAGGTT TGTTTTATTT AAGTTTAATG TTAATTCCAT GCTGTGTTTC AGTAAGANCA ATACAGATTC TGTATCTGTG
GCTCCAGTCA GATATCCAGT AGTACAAATN AGCTTCAAGT TACACATACT GANCAAAAGA GGTTGAGCGA GCGAAGGAGG
GGAGGAGTGA GGGGAAGGAG GTAGGGGGAG GGGGAAGGAG AAGAAACAAA AGANTTGAAC AGGCATGCAG GCTTTTCCAT
ACCACCTTCA ACGCTAACCT GCTTCAGTGG GAGAGTAAAG TAGGCAAGAN TGAGCAGCCA CGGATTGTTG AACTG

SEQ ID NO:624: (Length of Sequence = 375 Nucleotides)
CCATGTTGGC CAGGTCTCGA ACTCCTGGCA TCAGGTGATC CGCCCGTTTC AGCCTCCCAA AGTGCTGGGA TTACAGGCTT
GAGCCACCAG GCCTGGCCCG TTACTATTGT TATTTTTAAA TGCATTAGTA AAAAAAAAA AAATTTTAAT TGCTAGAACA

TTAAATATCA ATACCCACAT TAATAAAAGC TATTTGGGAG CCTTAATAAT TATCAATGGT GTAAAGGGGT CCTGAGACCA
AAAAGTTTGA CTTCACCAGG TGTTTGAACA CTACAGATCC CATCTTGCCC ATGAAGCTTC CCTAGACATC CCCACCCCAC
CGTGCTCCNT TCTGCATCCT ACAATAGCAT CCACTGGTAA GGGCCACTTA TTTTA

SEQ ID NO:625: (Length of Sequence = 305 Nucleotides)
GTTCCTAGAT TACTCAAATT TAGTACTCTT CCATCTTTTC TTGTTGCTAT TCTTTTAAAA TCACAAGAAG TCCATAACTT
AAGTAGGAAT TTGTATAATG TAACTTATTG TGAGTATATT TCCTTACCAG CTCATAAAGA ACTATGTAAA CTTGAATGCA
TATTTTTNAC ATAAAAATAG CAAAAAAAAA AAAANCAAAA AAAAAACAGT ACTGGCCTAA TACTAGTNGA NTTACAGAAT
ANGGGTAAAT ANTACATGNN CATCCTTACA GAGTGAGCAT AAACAATACA TGGTAATAAT ATTTA

SEQ ID NO:626: (Length of Sequence = 300 Nucleotides)
AGCAATCACA TAAGGAAGGC ACCTCGAGTC TAGTAACACT GTGACTCTTG CGGTCTCTTA GAGGTACTTG GTGGTCTTGG
ATAAGATCTG GAAGAATTCT TTGGATTTCC AGACATAGGC TCTTGTNCTC TTCCCTTACT TTCTCCCAAA CAAATGGCAT
CTCTCTCTCT CTCTCTCTGT GCTGAGCTGC CTAGAACTGT GGGTGGGATC ACACAAGCAC CCTTNTGGCC ATTGCCCTTG
GGACTGTGCT AGGTCAGACC TGAAGTCAGC ACAGCATTGG GTCTCACCCA ACACCTGTGG

SEQ ID NO:627: (Length of Sequence = 369 Nucleotides)
GAAAAAGAGA GAGGAGAGGG AGTCAGGAGT GCTTTGGAAC TGGAGGTTTG CTTTCCACTG ACAACATCCA TATCTNCTGC
TAATGCCAAC ATGCTCCCAA GTGTCTTAGT GGGTCCCACA AAGTTGATCC AGCCCAGAAG AGTTGCAGGG ACAGTCAAGA
AACCAGAGGT GCTGCCCACA TCCCCATCAC TCCCTTTCCC AACTTCCCAG CCTTGCCCCA AAAGCAGCAG CTCAGGACAA
CCTGAGATAC TACTGTNATG GGTCCCCGGG AGGAGGACAG CAGGAGTCTG AACTCCAGAG GAGGGGGAAT ATGGGTAAAA
CAGAGAGATG GCAAGGAGAC AAGCTGTNCC CAGACAGAGG GATGGGAGG

SEQ ID NO:628: (Length of Sequence = 310 Nucleotides)
TTTTTTTTTT TGAGACAAGA GTCTCACTCT ATCACCCAGG CTGGAGTGCA GTGACATAAT CATGGCTCAA TGCAGCCTCG
ACCTCTCAGA CTCAAGTGAT CCTCCCACCT CAACATCCCA AGTAGCTGGG ACTACAGGAG AGCCACCATG CCCAGCTAGT
TTTTNACTTT TCTGCAGAGA TGGTGTTTCT CCATGTTGCC CAGGTCGGTC TCGGAACTCC GGGGCTCCAG CGATCCTCCT
GCCTCAGTCT CCCAGAGTGC TGGACCCACA GGCATGAGCC ACCACACTCA GCCCCAAAAT CCATGATTTT

SEQ ID NO:629: (Length of Sequence = 443 Nucleotides)
CGCAGAGCAG AGGGTGGAAA GGCAAAGAGT ACAAGTGAGC GAGCCCTTTT TGTGATGGCG TTGATCTGTT TACAAGGGGA
CTGCCTAAAC ACTTTCCATT AGCCCCCACT TCCCAACACT GTTGCAGTGT TGCAGTTAAG TTTCCAACAC ATGAATGCTG
GGGGACACAT TTAAATTAGA GCAGTGATGA TCAGAAAGTT ATTGTTGGGA AAGGAGGTTC TATTTTAACT TAAGTAGCTT
GAAAAAGCTC TTCAAGGAGT TGATACAAGA ACTGAGATTT GAATTAGAGG ACCGAGTAAA GTGAAGAATC TGCGGGCAAA
GTCCCAGGCA GAGGGAAGAG CAGGAAATGA TTCATCAGTA GACTTGCTCT CCCATTCTCG GCAAGGGCTA TTTCACATTT
TCTTCCACTC TCTTCCTCAG CACATCTCCA CCTGGGTTTT CTC

SEQ ID NO:630: (Length of Sequence = 263 Nucleotides)
TGGATGTGGT GAAAAGCGAA CACTTATAGA CTGCTACTGG GAACGTAAGT NAGTACAACC TCTATGGAAA ACTGTATGGA
GATTTTTTAA AGAACTAAAA GTATATCTAC CATTTGATCC AGCAATCCCA CTGCTGGGTA TCTACTCAAA GGAAATAAG

212

TCATTACATC AAAAACACAC CTGCACACAT ATNTTTATTG CAACACAATT CACAATTGTA AAGATATGGA ACCAACCTAA
GTGCCCATCA ACCCAATGTA GGG

SEQ ID NO:631:   (Length of Sequence = 221 Nucleotides)
AATTTTNACA TATCAGTAAT TGTTTTTATA ATTTGTGGTT TTNATGAAAC ATTGCTATGC ATTTATTAGG AAAAACTGAA
TTTCCCAACA GGTGAACTGA AAAGNTATTT TAACTATTAT ACATAATCAA GATCCTGCCT CTACGGAATT AGCTAAACCT
AAAAATGTTT GCATTAATGN ATAAATTCTT CCNGCATTCC TTGGGCCNGN TCTGGAGGTG G

SEQ ID NO:632:   (Length of Sequence = 344 Nucleotides)
TGTGATGGAG ACAAATACTT CAGTATTGGG ACCCATGGGA GGTGGTCTCA CCCTTACCAC AGGACTAAAT CCAAGCTTGC
CAACTTCTCA ATCTTTGTNC CCTTCTGCTA GCAAAGGATT GCTACCCATG TNTCATCACC AGCACTTACA TTCCTTCCCT
GCAGCTACTC AAAGTAGTTT CCCACCAAAC ATCAGCAATC CTCCTTCAGG CCTGCTTATT GGGGTTCAGC CTCCTCCGGN
TCCCCAACTT TTGGTTTCAG AATCCAGCCA GAGGACAGAC CTCAGTACCA CAGTAGCCAC TCCATCCTCT GGACTCAAGA
AAAGACCCAT ATCTCGTCTA CAGA

SEQ ID NO:633:   (Length of Sequence = 378 Nucleotides)
GGTCAGACCT GAAGCCGGCA CAGCGCTGTG ACTGCCCAAG ACCCCCACTG TAACAACAAC CCAGCTGCCA CCTATTTCAC
TCAAGGCCCC AGGGCTCTCC AATTAGCAGG TAGTGAAGCC AGCCAGGCTT CTNTCCTTCC CTTCAGTGCA GTAAGCTCCC
CTGGTCCCTA GATGCATTCA AAGGTGCTGT CTGAGAGCCA GGGCTCTCAG TCATAAACCT TATAAATCTA CCTGGNGTTC
TGTTCTACCA TCGCTGAGCT GGCACTGAAT CCACCCGGCA AATCCCTTCC CACTNTCCCC TCCCCTCTTN CCCAGGCAGG
GTAGTCTGTT NCCACCTACG ACGTCATCAC AGTCTCATGC GGGATTACTG CCAGCTTC

SEQ ID NO:634:   (Length of Sequence = 28? Nucleotides)
ATCAGTGGTC TACCACAGNT TAAGTAACGG GTCATATT.G GAGTATCACA CATCTCAGTC TTGTAGAAAT TAGGNACAGC
AATTAGGAGT CATGCACATA TANGAGATGT AATCCCACCC TTTGACTATA GCCTACTCTT GTNTTTTACA GAAAAGACTG
TGGNGGAAGA AAACCCTTTA CCCTNTTNTT CAGGGAGAAA CTNACANCAC TCANCTGCCT GGCACTGAAA ATNTGGCATC
CAGTCCACTT TACCATCAGT GTTTAAGGAA ACCATCTCTG GTAAGC

SEQ ID NO:635:   (Length of Sequence = 226 Nucleotides)
TTGGGATGAT GCTTTTATTA AACGGAAGCG TCCAAAAAGG TCTGAGTCAA TGGTGGAGAG GGCAGTCAGC CCTGTGGCAT
TTCAGGGCTC CCCACCGATA GTNATCGGCA GTGCTNACTG CAATGTGATA GAGATAGATG ATACCCTCGA CGACTCCGAT
GAAGGATGTG ATCCTGGTGG AGTCTCAGGA CCCTCCACTT CCATCCTGGG NGTGCCCCTC CCCTCA

SEQ ID NO:636:   (Length of Sequence = 367 Nucleotides)
AACGCAATAA AAAGACAAAT TCCAAAATGG GCAAAAGATC TGAATAAACA TTTCTCCAAA GATATGCAAA CAGCCAATAA
ATACATGAAA AGATGGCCAA CATCATTCAT TATGCATTGC AGAAATGTAA GTCAAAACCA CAATGACATA CCACGTTGCT
CCCACTAGGN TAGCTACAAT CAACAAAATG GACAGCAAAA AGTGTTGGTG AGGAGTAGAG AAATCTGAAC CCTCATGTAT
TGCTAATGGA AACACAAAAT GATGGAGCTA CCATGAAAAA CTGCTTATCA GTTTGACCTC GGGAAGTTAA ACACAGAAGT
ACCACATGAT CCAGCAATTC CACTCCTAGG TATATACCCC AAGGACT

SEQ ID NO:637:   (Length of Sequence = 384 Nucleotides)

TTCATAAAAA TTTTACTTAA AATCTGTAAC GCTAGATATT GACTATCCTT AGTTGAGTCA CTGAGGTTTA AACACAATGG
TAAGTCTTAA AGTCTGCTAT TTACAGAGCA TTGAATCTGT ACCAATTTGC AATAGAAAGC CTTCAGTATG CAAGAAGTTT
GCATGGGTAT TAAGAACACA GCCTAAATAA GGCATTTGAT CTAATCTGCA GGAAGAATTT TCTTCCCCAA AACAGAATTA
TAAAAGCTTA CTTTAAACAG GAGGCAGAAT AATTCTTTTA GGAAACCATT TCATTCTGTT TCTACTAACC TATACCATCT
GAGGAATTCT AGGGAGGATA ATAAAANTCT CGTGTATTCC ACAGCAAACT TACATACCCT AAAG

SEQ ID NO:638: (Length of Sequence = 409 Nucleotides)
GAAATTTTTC ATCAGCTCTT GTTTCCTCTC ATTCTTTTTG ACCTTGTAGA TTTATCCTTT TTTCTTAATT TATTCTCACT
TAATGGGATT TCAGGAGCAT ATTGACTAAG TTTTCATTTT TACATGTATA CTGGGGAGTA TGACATAGAC ATCTCTGTAC
TTAGATATTA CTGATGTAAG TCTACTTTGA ATCAAATGAA CAGATGTTTA AAAAGTATTG TNCCCAATTG TTTTAATGAT
TTCTNCCTGT GAGTTGGGGT GGTGCTGCCC ATCACCAACT CAGGACGGGT ATTTGAAAAT ACCTGGGNNA AATTGTAACA
ATGTCTGGGA AAACACTGCA GGATATTTTA ATTGGGCAGA GGGGTCAAGG GGATGGATTA ACCATTGCGG AAATGTGAGG
GACGGGTCC

SEQ ID NO:639: (Length of Sequence = 197 Nucleotides)
GGTTCTACTC ACGGCTCAAG AGCATGGCTC AGGAGGAGAT CCGCAGAGAG ATGGACAAGA TNATCGAGGA CCTGGAGCTC
TCCAACAAAC GGCACTCACT GGTGCAGACA TTGTCGGGTG GCATGAAGCG CAAGTGTACC GTGGCCATCG CCTTCGTGGG
CGGCTCTCGC GCCATCATCC TGGACGAGCC CACGGCG

SEQ ID NO:640: (Length of Sequence = 398 Nucleotides)
GAGAAGGAGT TTCGCTCTTG TCACCCAGGC TGGAGTGCAA TGGTGCGGGC TCGGCTCACT GCAACCTCTG CCTCCCCCGG
GTTCAAGGGA TTCTCCTGCC TCAGCCTCCT GAGGAGCTGG GATTACAGGC ACCCGCCACA CACCCAGCTA ATTTTCTATT
TCCAGTAGAG ATGGGGTTTC ACCATGTTGG CCAGGCTGGT TTTGAACTCC TGACCTCAGT TGATCTGCCT GCCTCGGCCT
CCCAAAGTGC TGGGATTACA GGCGTGAGCC ATTGGCACAC AGCCTTATCT GCATTTTCAA ACGGGCCAGT ATGGATGGGT
TTTACACTTA TACTNGAAAG GTCATCCTTT TNAAAAAANG AACCTTTAAA ACCATTAACT ATATATAAAA ACTATATT

SEQ ID NO:641: (Length of Sequence = 402 Nucleotides)
ATAATTTTNA GCAAAATGAT ACAAAACTNT NTTAACCAAG TAGAAGATTG GTAGTTACAG TGGAATCGTC AGGGAGTACA
GGGCGGCCAC CACTGGAGGG AGCTGAGGCC CTGGAAAAGG AGTCTGATTC TNTGCAATTC TCTCTCTGCT TTTNTTCCCA
GCCCCGTTAC AACCGAGTTC ACGTGGGGGG CCGCAGTGCA GCCCCAGCGG TGGCAGCTCT TGGAGTCTGT CCGTTTAGTA
TGTTTCCCCC ACGAGCGTCG CTGGGTGAGT GGCCTGGAGA GCTCCCGGTG TTAACATTTC GATCCTAGAC CGGGGGGACG
TGTCACTAGG TAAAGGCCAT TGGGTAACCA GAGTAGATCA GGCCATGGCA TTTGTCTGGC CCCTTTCACA GCAATTAAGG
GG

SEQ ID NO:642: (Length of Sequence = 395 Nucleotides)
CTTCAATGAT GCAATTCGAT TAGCTGTGTC TTACAAACAG AACTCCCAGG ACTTCATGGA TGAGATTTTT CAGGAGCTCG
AGAACTTCAG CTTGGAGCAG GAAGAGGAGG ACGTGCCAGA CCAGGAACAG AGCAGCAGCA TCGAGACCCC ATCAGAGGAG
GCGGCCTCTC CCCACAGCTG AGGGGCTGGG GCTAGGGGTG GGTGGAGCCC TTTTAAAATA CCCTTCCCTT CAACAACTCT
CCAGCTCTGA ATGGAGAAAC TCTCTAGGNC ATCCCCTCTT CTACCTCCTG CAACCCACCC ATCCTATTAG GCTNCCACAT
TCTAGGGCCC GTCNTACAGG GGATGAGGGT CAGCAACCAG CAAAACTCTN GGACTTGTTG GGAAGAATTT TNCCC

SEQ ID NO:643: (Length of Sequence = 325 Nucleotides)

GGTATCTTAA AGCCTTTCAG GGATTTCAAT AGACACATTT CTTTAGCTGA AATCTATTCT CTCAGAAACT TACCCAAACT
TCTTAATAAT GTNCAAATTC TAAGAAAGAT ATCATGGCTA CACAGCACCA GGNAGAGCAC ATTATTTCTC TTCACAATTC
CCTTGCATAG CATCATGGCT TCCTAAGGGC TTTTTAAGTTT ATTGCTTCAA CTGATTCTCA TAAAATCTCT GAGATGCTAT
CTGGAAAGTA TTATTATCCC CAGTTTGCAG ATAAGGCAAC TGAGGTCTAG ACTTGCTAAA AAATCACACA ACCAGGTAAG
TGGGC

SEQ ID NO:644:   (Length of Sequence = 373 Nucleotides)
CTTCACATCA GCAGCCGGAC GAGGTGACTG AAAATCCAAA ACAGAAAATT GCAGCAGAAA GCAGTGAAAA TGTTGATTGT
CCAGAGAATC CTAAAATGAA GTTGGATGGA AAACTTGACC AAGAAGGCAA TGATGTAAAA ACAGCAGCTG AGGAGGTACT
AGCTGGTAGA GACACATTAG ATTTTGAGGA TGTCACAGTT CAATCATCAG GCCCGAGGGC TGGTGGTGAA GAATTAGATG
AAGGTGTTGC AAAAGATAAT GCTAAAATAG ATGGTGCCAC TTTAAAGCAA TCCTNGAAGG ANCCAGAGGA GCGAAGGATG
CAGATCACTG CACCCGTACC CCAAAAAATTG GAAAGTCCCC TCACAGGCCA TTT

SEQ ID NO:645:   (Length of Sequence = 310 Nucleotides)
TTTTTTTTTT AAGACTCAAG GTAATGAAAA CTATGAGTAG AATAGTAAGG TGTGACAGGG GACAAATAAG TAGATATAAA
ACTATGCTGC AATATTTTAG TTATTAAAGC TGGGAAATAT GCAAATGTAA GTAGTGCTTG GAACCAGAGA AGGTTCTATA
TTTAGCTGTT CTTCTGTAGC TAAATCTGAC AAATTGAAAA ATATCATATT CTCTGCTCTA GGTACATTTT ATGTATATTT
TGACAGCATA TCAAATATAT GANACATTAG GTTAAATAAA TTAAAATCCA GTGGGATAAA CTATATGGGG

SEQ ID NO:646:   (Length of Sequence = 362 Nucleotides)
CTTGGGATTG CTAGATCAGT GTTTTAGACA GGAATGCCAA GGCAGAAAAG AATCACATAT CCAGGACCAC ATAAAANCTG
GAGTGTATGT CATAACAAAT TTNCTCCTGT GCTTAGAAGT TTTATGGCTT TGGATTTTAC ATTGATGTTT GCAGTCCATT
TTGAGTTACT TTTTGTATCT GATATGAAAT ATACCCAAGT NCATTTAAAA AATAAGATTA TACAGTTGTT TATGGAATGC
ATTTATGTAC ACGGGTAATC TGTTTTGATT TTGTGTGTAT GTTAAAACAT CTTTATTATA GTATTNTGTA AGAGTAGGTT
AATATTGACC TTGGGCATTT TTAAACCAAG GGGGGAATTT CC

SEQ ID NO:647:   (Length of Sequence = 226 Nucleotides)
TTTTGGCGTC AGATCTGTAA GTTTATTTGC TCAATGTACG ACAGCTACAT AATGNCTTAC ATTCATGATA TTCCATCACT
GAGGAAACTG CTAAAGATGG TCCGTGTGTG AAATAATTCC TTAGAGAAAC ACGGAGCTGG AAAAATAATC ACTGATTAGA
CCTTAAAAAT AGTTCACTGC ATAACATGNC AAAAAGCACA AAGGCTCATT CAGAGAACAT ATTTGT

SEQ ID NO:648:   (Length of Sequence = 198 Nucleotides)
AACTAAAAAG TTAAAACTTT TACAAAACAA CAAGTTTTCC TTAAATTATG ATTTGTTATT ATAAAANCTA GTAAGAAAAA
ATTCCACCAC ATGAAAGCAT TTNCTAAAAT TCATACCCCC GTACCTATTT TTAANTACAG TTGGTAAATT GATTAAGCTC
TATTTNCATT TTGANTGATC ATCGGTTTTA TTTTATTT

SEQ ID NO:649:   (Length of Sequence = 337 Nucleotides)
ACATCTGCAG CCATATATGA GGTCCCTCAT GAGACTTAGC AACAAGGTGT GTTTTAATGT GACAGTGTGT CTGATGTGTC
CCCAGCACAT TGGGACCAGT ACACAGTGTT ATTTGTACAT CTGCTGAGTA ACATTGAGTG TGTGGGTAAC TAAAGCCCTC
AGTAATTATT TTACTTAATG TTTTCAAGCT TAATTCTGAT CTTGTACTTG CATGATTTAT TATTCCTTGT GCTAAATTCT
TCAATGTTCT TGCCTTGATT GATCTGTCAT TATCTATCAC TTAACTAAAA TANTAAATNC CTTTAATTAA GTCATGGTTA
AATGAGGCAC TTTGTTT

SEQ ID NO:650: (Length of Sequence = 286 Nucleotides)
GGGTTGAAAG GAAAGGTGAC AGGAAAGATG TGTTTAGCAT CCATGAGCAG CTGGGGAGAG TCTTTCCTGT CTCGTAAACG
CATCTGAGAA GATTAGGAAA AAAAATAAAC AGAGCATCAG TTCTTTGAAT CTAAAAGACT TTNTTCTACT AAAATTTCTA
CCCTCAAATT CTCAACTAAT GAAGANTGTT TACTTTTGTT TTAAACTCAC TTCATTTTCC CAATTAACTA TTATCAAAAA
AGTTAGTGCA TTGTAAAATA AGNTAATAAA GGNTAACACA TTATCC

SEQ ID NO:651: (Length of Sequence = 360 Nucleotides)
GATAATGTAA ATTTTTGCTT CTGGGCTTGT CATCAGGATT GCAATTTTNA GATTTAGTTT GCTAATTGTT TGGCCTTTGA
AAAATTATAT ACACTTGGTT TGTTTTGGTT TTCTTAAGTC AAAACAAGGA AATAAAATCA CATTTGCTTT CCAAGAAAAG
ATAATGTTTA AGTGGTTGTT TAGTGTTTTG TGTCTTTGGG GGTGGGAGGG GGTGTGTGGA ATACACAAAC ACACACACAC
AAACACACAC AGTCTATATA TAANCTTATT GGAGCCATCA CTATATTTTA AGGAAAATGN AAATAATCTA TTGAAGCTTT
AAAATTAGGA ATTTTTGATT TAAGCTAAGG AGCCTATTTT

SEQ ID NO:652: (Length of Sequence = 353 Nucleotides)
GTGGTGGGNN CCTGTAATCC CAGCTACTTG GGAGGCTGAG GCAGGAGAAT CGCTTGANCC CTGGAGGCAG AGGTTGCAGT
GAGCCGAGAT CGAACCACTG CACTCCAGCC TAGGTGACAA GAGCGAAACT TTGCCGGCAT TTACACTCTC AAAAGATTTA
ACGCAATTAC AATCAAAAAA CACTTGTCAT ATATAACACT TTTTCACATG GAAATAAATT GGTGGTTTAA GGTTTACAAT
TCCTTTGAAT AAAATTTCAG TTATTAGTTA CAAAATGCTA AGACAGATTG AGGTCTCAAA GAAAGANCTT TGAGGAAAAT
TTATGGTTTT AAAGGGACTT TCACCAAATA TGA

SEQ ID NO:653: (Length of Sequence = 224 Nucleotides)
AAGACAGGGA NTACTTTATT CAAAACCCAT CACAGAAATG GACAGCTTGG GTCTGTAACA AAGCATTCAT GTTTTAGNGC
ATAGGTCAGT AATTGTATAT GAGAGCATAC ACTGCTACAT ACAAATTAAC TGNTCAGACC ACAACTTTTC AATGTTTAAA
ACAGNATAAG CTTCCCTGTA AAAGCAGCAC CTTTTGTGAC GNTTTAACTT TAGTATTCCT CTCC

SEQ ID NO:654: (Length of Sequence = 353 Nucleotides)
GTCAACTCTA TTTTCCATAT GAATTATTAG ATTTGGTGCT GTCTTGTGAA GTAACTTGAT ACGATAGATG TGTAGTATGA
ATTTTGTCCA CATGGTTGTG CCCTTGGCAG AACTGCACGT ACCTGAAATG GTTCCCTAAT TTTTTTCTAG TATTACTATC
CAACACTTCC TCTCATAATC ACTAGTGTAT TGTATAATTG TTAAGTGTCC TTTATTCATA TATTTAAATT AAAAGAATAC
TCTGGTAGGA TTTTGAGGGC CAATAGTGTA TTTCCACTGT TTGAGGTATT AGGAGGGCTA TTTACTGATA CCTGTAGTGC
CTTCCCATTC TGGTTTATCA TGCACCTCTA AAT

SEQ ID NO:655: (Length of Sequence = 365 Nucleotides)
GAAACTNACT TCACATTTCT CCAGGGAGGG ATGCTTTGGA AAAACTGCTC AGTGAGATGA AGCACAGATC TGCTTTTNAT
CCCTTTTGTA CCTTTTTAAA GACATAAGGT ATGTTTTGAC ACTGGAGTAT ATATGAGGGT TGCTAACGTT TAGGTTGAAA
GAGCTGCTGT TGTCCACAGC TTATTTATTT NCCACCCATT TTTGTCTCCT GGTCTCATCC AGTTACATTT CCTGGGATAT
GTTTTTGGAG GTTGCTCAGA TCACGGCACT AGAGTCCCTT TGGGTTTCTC CTCCCTCCTC TGTCTATTTG GCCTCGCCCT
TGACAAACAT TCCCCACATT CACAACCAGG CCTTTGGCTA AATGT

SEQ ID NO:656: (Length of Sequence = 372 Nucleotides)
GTCATGAGTC TGAGACCAGC CTGGCCATCA TGGCAAAACC CTATCTCTAC TAAAAATACA AAAGTTAGCT GGGTGTGGTG
GCGTGCACCT GCATTCTCAG CGACTTGGGA TGCTGAGGCA GAAGAATCGC TTAAACCTGG GAGGCAGAGG TTGCAGTGAG

216

CCGAGATCGC TCCACTGCAC TCCAGTCTGG GTGACAGAGT GAGACCTTGT CTCCAAAATA AAAGAAATTT ACTGCAAAGG
GATGTTGCAT TTCAGGTGAA TGTATGTAGC CTTTCAGAGG CCGGGCTATT TATTAGATGT ATTTTATAAC TGAGGGTTCT
AGGTAAACAC AAGCCAAACA GATCCACCAG AAGCCTAGAG CTGTGGACTC TT

SEQ ID NO:657:   (Length of Sequence = 334 Nucleotides)
GGTTGTGGAA AAAAAAACCT CCAGATAAGA TTGTGCCTGC TTCATTTTCT TGTGAGGCTG CCCAGACAAA GGTTACTTTC
CTGATTGGGG ATTCTATGTC ACCTGATTCA GATACTGAGC TTCGAAGTCA GGCAGTGGTG GATCAGATTA CCAGACATCA
CACCAAACCA TTGAAGGAAG AAAGAGGGGC TATTGATCAG CATCAAGAAA CTAAACAAAC AACCAAGGAC CAATCTGGAG
AGTCTGATAC ACAGAACATG GTTTCTGAAG AGCCCTGTGA ACTTCCCTGT TGGAATCATT CAGACCCAGA AAGCATGAGC
TTATTCGACG GATA

SEQ ID NO:658:   (Length of Sequence = 286 Nucleotides)
ACAAACCAAC TGCATTTCTT TCTGGATATT GTTGAACAAA AATAGCATTC AGTTTACCCN CTAGTGCTAA CAGAAGNGNC
TCAAGCTGTT CCCCCATCAT GGGNGCAGCC CTTAACAGAG GGCTGCACAA ATCTGCAGTG CTGCTCTGGG AAGGCTNCA
AAGCACTTTT TTCCCAAGAA GGGATGCTGT TCANGTCTGT TAGGGGAAGC ACACCGNCTN TGCCTGGGCA CAGATGAACT
GCCCTTCAAG GCAATCATCA TCTTTTTTCT AATAGGGAAG GTTTGG

SEQ ID NO:659:   (Length of Sequence = 321 Nucleotides)
GGTCTTTATA TGTTTCCGAG ACAGGACTGA AACTCCCTGC ..TCAAGTCA TTTTCCTAAG TAGCTGGGAC TATAGGCTGT
TTCTTTTTTT AAAGGAAGGA TTTTATGTTT ATCATGAAGG ... AAAATAA ATTTGGCTAA CTTAAAGAGT TATTTATCAG
GAGACACTAT TAAAAAAAGG CAAATCAGAA ATTTGGAGAA ... ATTTTTA ATACTGATAA TAAGACAGAA TTGTACCCTG
TAACCATAAA TATGTAGAAT TTCTACCATA TCAATAAGGT .....AGTTTCT GTTGCTCCAC ATCCTCTTGC ACGGTTGGGT
A

SEQ ID NO:660:   (Length of Sequence = 302 Nucleotides)
TTTGTTAAGG ACATAATGTT TTTGACTGGG GATCATGTTT GGCTGATGTA AATATTAATG CCAAAATAGG AGCTAGGATG
AAAGTAACAC TGTAATTAGT AGTAGAATTT ATTTCATATT AAAATGTGTC ATGACGTAAT TTTTATGGCT TGGCTCAAGC
AACAATTTTC AGAGTGCACC CTCATTGATG CTACTCACAG AGACGTGGAT GTGCTGTTAC TGCTTTCTAA CTCTGCCTAC
TACGTGGCCT ATTATGATGA TGAAGTTGAT AAAGTAAACC AGTATCAACG NCTAAGTCTA GG

SEQ ID NO:661:   (Length of Sequence = 249 Nucleotides)
AAAAAAAAAA ACTCTCAAGG GTCTAACTTT ACCCATCATA AAATAATTTT GGTGCAAGGG TAGTGGCACA TTTTATTTAT
TTGGGATACC ATGCAGATGC AACCTAGCCC CATTCTTTAT GCAAGTAGA TTATCCGTGC ATTTCTTCTG CATTGNTAGT
GAATCCTTAC TGGGGNCAAC TCATTCCATT TGGCAACAAT CTTTAATGGN CAGGCAATAT ATAACATTGC TGAAGTCTCT
TAGCACTAA

SEQ ID NO:662:   (Length of Sequence = 340 Nucleotides)
TTTTTTTTTG GCAGCCTTGT AAGGAGAACT TCACCATTTC CCAGCACATC CCTATGTGTG CGCCTATTTT AATGCACCTC
TCTGAAACAG AGACCTTTTT GTTCACAACC ATAACTAAAG CTGGAAAGTC AGTCTTCAGG CAAGGCGAGG GAGGAAAACA
TCCCATTAGA ATTTTTTCAG GAAAGACTTA TGGNAAAAAA TATCTTTCTC CCACCTCCTT TTATCCCCAT GAGACACAGT
TTCCCACTGT AATCAGGGTA ATATGCATTT NTAAGTNCTG ATATGTGATA CATTTATGTG ATGGCAAAGA TAAGTCTGTC
TTGCATGCAG GGTACTAGAG

SEQ ID NO:663: (Length of Sequence = 325 Nucleotides)
CACAACAATT CTATGAAATT AGCTGGGGAG ATACTGTCCT TATTTTTCAC AGCTGAAGAA ACCAAAGCTT TGGGAAGTTT
GTGACTTCTC TGAGATCACA GCTGGTGATA GAAGGAGCTG GGACACGCGC TTGGGTTGAC TGGCTTCTGG TTTTGGTTCT
CTGGCTTCTA GTGCTGGAAG AAGCCCTCTC TTTCCCTTCT CTTTCCTCAG TAGCATCTGA CTCTTTTTCAT AAGCAAACAG
CTGTATAAAC AAAGCCCCCA TTTTGGTCAA GCACAGGGTG AATGTGATAT TTGTTCCCAC AACCTTATTC TNCACTCAAC
AGCCG

SEQ ID NO:664: (Length of Sequence = 300 Nucleotides)
TTGCTGAGAG AGATGATGTT TCATGGGTGA TGTCTCTGGA AGAGATTGGA TAGGACCCAA GCACAGAGCA AGAAAATTGGC
TTTAGGCAAG TCAGATTTGT CTTATACTAG TTAGGAGTAA AGAGAAATGG ATGATACAGA TGCAGCTATG TTCGTAGGAG
GGAAGTGGAG GGAATTTCTG TGTGATGGCT TTAGTAATGT AGGCAGCAAG GTCAACTACT GACAGTGAGA GGAGAAATTC
GGGGAGGCTG GTCACAGTTT GAAGTAAATG GTCATGGGGA GGCAGATGTT TGTGGGTGGA

SEQ ID NO:665: (Length of Sequence = 327 Nucleotides)
CAAATAAGAA CCCAGAGAGA GGGAGAGATT CACAGACAAT AGCTTAAAAA GTCTAGAAAT TATAGACCGA TTGAGGTCAG
CAAGAAACAA ATTATTCAAT ATATCCCCTG AGGGCTAGAG CCAGACTTTC CCTATGATT CCAAAATTAC TTCGCAGTTT
CATTAGGGTG AAAGGCAGTG CAGTCTCATG AGTTCAGAAA GTAAAGGTTG TTCCTTAAAA TTTAGATAGA CTTGACAACC
ACTTAGGATG GCATTTTGGC ATTCTGTCCC TGCTCATCAA AGAAGTTGCT CAAATTTGTG GGNTAGAGGA ATGAGGAGCA
AGAAGTA

SEQ ID NO:666: (Length of Sequence = 319 Nucleotides)
ATTCCCAAGG AGAGGCTGAG ACAGAGAGGC TTTGAGCTGT TCCTCAGCCC CCTACCCTAA CTCCCTCCCT ACTGTTGATC
AGGCTGGTCT CTAACTCTCG ACCTCAGGTG ATATGTGTGC CTCAGCCTCC CAAAGTGCTG GGATTACAGG TGTGAGCCAC
CATGCCTGGC CTGGGTTTTA TCTTAAGGTC TTTGTGTTGC TGTTCCATCT GCATGAATAC ATTNCTTCA TTTACTTACG
TCTTAGCTTA AATGATACCT CCTCTTCTTT CCTACTGCCA TTATCTTCCC TTGTCACTCC ATACTCAGAT TTCATTGCA

SEQ ID NO:667: (Length of Sequence = 288 Nucleotides)
GGTGGCAGGC TGCTTGCANT NCAACGCCAG GNGTTTCCTG ATGGGTCAGG GTGGGGAGGC TGCACACCAC ACAAGGTCAC
CCTACTCTAC CTTCTACCCA CCCTACCACA GCCCTGAGCT CACCCACTCCC CCAGGGCATG GGACTCTTGA TAATTCCAAG
TCCATGAAAC CCTACAATTA TTGCAGTGCG TATGANTCCT TCTATGAAAG TACTTCCCCT GAGTGTGCCA GCCCTCAGTT
TGAAGGTCCC TTAAGTCCTC CCCCAATTAA CTATAATGGG GATATTT

SEQ ID NO:668: (Length of Sequence = 212 Nucleotides)
TCNTTTCTNT TTCTTATCTA TCTNCTTCAC CATGTGTCTT CGGGGCCTGG AACATAGTAG ATGCTCAATA AATATTGATT
GAATGAATGA ATGAATAAAT CTNCTTACAC CTCTCATGCT TCAAACAGGG AAAGGCTAGA TTATTTAGAA GTCTTGTCGG
GGATAATAAT NAGCTCAGTG GAAGCCCTCT AGTTCTCACT CGAGTTTCTC CC

SEQ ID NO:669: (Length of Sequence = 281 Nucleotides)
ATCTTTTCAA CCCTATCAAT AAGATGTTAT GAAAGATTGG TTCTCTTGTT TACAAGTAGT ATAGAATCTT TTTTGATCTT
TGACTCTGTG CTGCCTATCT CATCAATGTT GTTGCTATTA ATATCTGTCC TTTAACACTG GATGTTGGGA TCTTAGTAAT
GTTGCTGATA ATAGGATTTT CAGCAAAACT TCCATATCCC TTGAAGATAT GGTAGTTTAT ATTACTATAT CGATAACAGT
TTTGCCTGTG GAGATTTGAC TAGTTTTAGG TGTTTGGAAG C

SEQ ID NO:670: (Length of Sequence = 234 Nucleotides)
AATAAAGTTG GGATATTTGA TTGTTTTCTT TTCTGATCTT TATGCTGACT GCAGTATCAG ATACCATTTC ATTGTTTAAA
AATCTTCCTT TTTTTTTTTT TTTTTTTTTG CATTTTGCTC TTTTGTCATT GTTTCAAAGT CAAGTTGATG GCCNCAAAAT
TCCAGAGGCT AAGCAATGCA GAAGTTTCAT CTACTGGCAG CTAGTTTTAT TTCTTAAAAA TACATTAAAT TAGG

SEQ ID NO:671: (Length of Sequence = 252 Nucleotides)
CCTGAAATGT AAATTGTTTT TAATATATTT AAGAGCACAC AGAAGTCTTG ATTTATAAAA AAATAAATAT ATAACATGAC
AAATTTACTG ATGATCCTGG GGCTCTGAGG TCAAACTCTT TAAATGATCA GTGAAAACAT AAAACATCCA TGATCTGTTA
ACACACACAG GGGCATATTC CAGTTGTAAA AAACAANTTC CTTGAAGGCT CAGNACGTAC AAAANTCAGT NTTTNTGGCA
GAAAGCACAT CC

SEQ ID NO:672: (Length of Sequence = 366 Nucleotides)
CCATCCAACT ACTTACTCAA TCCTCTTGAA ATCTGCCTTT TGTAATGTAA CTGATAGGCC AGCGTTTTCT TTCACTGTGG
GAAATAAAGG CTACTTGGTT GCTTTAGGGA GGGCAACAAT GTCAGCTGCA TAAGCAGCAA GAATATTATA TTTNATTACT
AGTCCACCCT TAATAAAGAG AGAAACCTTA GGAAATGGAA AGAGGTGTCT GTTTTATATT TCCTTTGCTT TTCAACCATT
GTTTAGACAC TCTCCCTTCT AGTGCTTGGA GAACCTTCAT GGAAACTCTG TTCAGGTTCT TGACTCTCAG CGACANATGT
GGAGGTCTTT GTGGTCTTAG CTCTCTAGGC CTGAGAATCA CATACA

SEQ ID NO:673: (Length of Sequence = 349 Nucleotides)
CCTCCCATCT TGGCCTCCCA AAGTGTTAGG ATTACAGGCG TGAGCANCCA CACCCTGCCT GGTTGTGTAC TCTTTTAAAT
ACTAAGTTTT TAATGTTAAA TGCTGCTTTT AGATACACTG TAAAAATACA CCTATCAATG AGTTTTTTTA TTAAAAACAT
TGCAATTGTA CTAGNCTTTA AATACTAAGC AATAATTCAG GCTTCAATGT TGGTTTATAG TTTTCTCATT TCTTTCATTT
AATACCTCTG TAAAATGAAG CAGTTACTTC CATTTTCCTG AGGTGAGATA AGTGCCCTGC ACAAATGTTA TAGGNCCAGT
AAGTGAGGAC TGGAGCTCTG GATCCTAAT

SEQ ID NO:674: (Length of Sequence = 256 Nucleotides)
GCACTTTGGG AGGCCGAGGC AGTTGGNTCA CCTGAGGTTA GGAGTTTGAG ACCAGCCTGG CCAACAGGGT GAAACCNGTN
TTCGTCTAAA AATACAAAAN TTAGCCGGGC GTGGTNGTGC ATGCCTGTAG TCCCAGGTAC TCAGGNGGCT GAGGCAGGAG
AATCACTTGA ACCCGAGGTG GGGCAGGNGG AGGTTGCAGT AAGCCAAGAT CGCGCCATTG CACTCTAGCC TAGGTGACAG
AGTGAGACTC CATCTC

SEQ ID NO:675: (Length of Sequence = 292 Nucleotides)
GAAGTCATTT TAGACTCTCA ATTTTAAATT AATTTTGAAT CACTAATATT TTCACAGTTT ATTAATATAT TTANTTCCTA
TTTAAATTTN AGATTATTTT TATTACCATG TACTGAATTT TTACATCCTG NTACCCTTTC CTTCTCCATG TCAGTATCAT
GTTCTCTAAT TATCTTGCCA AATTTTGAAA CTACACACAA AAAGCATACT TGCATTATTT ATAATANANT NGCATTCAGT
GGCTTTTTAA AAAANTGTTT GATTCAAAAC TTTAACATAC TGATAAGTAA GA

SEQ ID NO:676: (Length of Sequence = 392 Nucleotides)
ATCAAAGATT GCAAACATTT ATTTTGATCC TGGACTACAG TGTGGGGATC ATTGCTATGT TGGCTTGCCT TTNCTATCCA
AATCTGAACC CAAAGTGCAG CCTGGTGTAG CCATGCAGGA AGATATGTGG GATGCTGACT GGGATTTGCA TCAAAGCTTG
TTCAAGGGAT GGACAGGAAT AAAGGAAAAT NCAGGTCATA GATTGAGTGC TATATTTGAN GTAAATACAG ACCTTCAAAA

220

CTGGTTCCTT CTGGTCTGAA ATTAGAGTAG ACTCGTTCTG AGTACTTGGC AAATGACTAT TTGATTCTCT GATTCCCTGG
NCTCCATGCT CACCAGATGC ATAGCAGGGA TCTCTCCTAG NCACTCACAT CCAATTTTCA GG

SEQ ID NO:683:   (Length of Sequence = 329 Nucleotides)
GATTTTAAAT AGTTAAAACA TTTTTTTAAA TCCATAAGTA ATTCTTACTC TACTCATTTA TACACACATA TACTCACATG
TACACAGACA TACCTACACA CACACTTATA AATACATGTA TACACAGAAT ATAGTAAGGT CTTTTATCCC TTTTCAATGA
AATAAATATT GTATTCTATA TTTAGNATAA ATAATGTTGA AAAAGTGATT TTGGAGAAAG GTTGAAATGA TTGAGTCTTA
AGTGTGTCAA TGTATAATCT ACCCCTTTCT AAACATCGTG TTTTAAGTAG TCATCTTACT TCAGAAATTA GAGGCTCAAT
GTGTTTAGG

SEQ ID NO:684:   (Length of Sequence = 281 Nucleotides)
AACATGGCTG ANTTGAGATT ACACTGCCAT GATACATTGN CTGACAGCAC TTCACATTTT CCCTGAGTTG GGGACAGAAA
TCACACTGCC CAAATACATT ATCTGATGGC TCCTCATGTT TCCCAAAAGT TAGGAAAGGA GGTTCTATAT ACATACATGC
ACAAGTGCAT ACACACACAC ACACATACAC ACACACACAG TGCTAGATGA GATGTTGANT GNCATAAGGA AATGAAAGTN
CCATCTCTCT NTTNCCTACC CCCTGCATCT GTCCCTTNAT A

SEQ ID NO:685:   (Length of Sequence = 324 Nucleotides)
ATTTTTAATA ATTTTAAACT AGCTACAAAA TGTCAATCAC TTCACAAACT GACAGAGGAG ACAGGAGGAA TTTAATATTA
CATGCTATAA TGATATTTAT CTCACAGTTT ATATTTCATT CATTTATATT ATTTTTTTTAA AAGGTTTCTT TATCAGCTAC
TAAACATCTC AGCAATTTGG TGTGCATAGC TCTAGATTAA GCAACAAAGN ATTGTACTGA TAACAAACCA CAGGGGAAAT
GGTGGTTAGT AAGAGTCAGC CTTATAAAAT TTACATCCAC ACTGTTTTCA CAGCAAGNTT GCTCTCTCCA AAACGGTGGN
CATC

SEQ ID NO:686:   (Length of Sequence = 380 Nucleotides)
CGAGGAGGAG GAGGAGAAAA TTCCCCCAGA TTCGGGCAGG CCCGCACCCC ACATTCCGTC CTGTTTTGAG AGGAGGAGGG
AAGAGAAATA AACGTGGCAG CGCATAGAAG GCCAGCAGGG AGACTGCTTT CCAGACACCT CCGGCCCACA CAGCCGTTCA
CCCCCCGTTT TTTCAGTCCT GGAAAAGGAA TTCGGGTCTG TTTTCCTTTT GGGCTCTGTG CAACTNCAGC TACAGTGGAA
AAAAGCAAAC TGCTCTTGAT CCCAGGCCCT GCCTAAGCCT CAGCAGAACT TNTAAGCCTA AACTNAAGA GCCTCACCCG
GACGAGCAGG CATNCCTTAA CCTTAAAGCA ATCCAGTTTC ACGGCCTGGT TCAGTGGAAT

SEQ ID NO:687:   (Length of Sequence = 305 Nucleotides)
GACACTTCCC CTCTTTTATG GAAGCATAGT AAGATTTTTC CTTTATGGCG ATCATGATGG AGAAGTATAT GCTACAGGAG
GNGAGGTTCA AATTGCAATG GAACCTCAGG CACTATATGA TGAAGTAAGA NCTNTGCCAA TTGCAAAGCT GGATAGGACA
GTTGCTGAGA AAGCTGTTAA AAAATATGTA GAAGATGAAA TGGCAAGGCT CCCTGATAGA TTGTCAGTAA CTTGGCCTGA
AGGAGATGAA TTATTGCCTA ATGAGATTAG GCCTGCTGGA ACCCCTATTG GTGCGTTAAG AATTG

SEQ ID NO:688:   (Length of Sequence = 390 Nucleotides)
GAAGTCATAA GGCCTAAATA TTAATCCAGT CTGTGACAAC GACAAGGTGA ATACAAGCCA GTCTCTACTT CTCTGGGCCT
CTGTTTTCTG CACTTTATAT AAAGATTGGG CAAGATGGTC TAACTTAAAT TTTATGATTC ACTAACTTGA TTTTGTATGG
GGCAGATTTT NCTTCGATGA AATATTAACA AATAAGNCAC TCAAATAAAT CAGCAATGGG GTGCAGATGA GGACTACCGT
TTCTACAGCA AAATATGGGT GAACTCAGTA AGTGTAGGNA CACAGAAGTT AATGCTGACC TCTTGCATAG CATGTATGGG
ATAATAAATC ATTTCCTGCC TTCCATTTCA GGGGTGAGGG AGGAACAGCT GTTCCTGAAC TCTTTTAAGG

221

SEQ ID NO:689: (Length of Sequence = 315 Nucleotides)
GATTTAAGTG TTAGCATTTC TAAACTTGAG ACTCTAACAG TAAAAATAAA GTAATCTGAA ACCTGTTTCC ATGGGTAAAA
CACTCTGCCT GGTATTCTTG TACACAAAAT TTACTAAATA TGTGAATATC ATAAAATGAA AATATCACTC CCTTCAATTT
CTTTGGCCTT CACAAATTCA ATGTGACTAT GATCCTTTTC AATAATACTT TCAATGACAT TGTGCTTCTT TAGAAAAATC
ACTTAAGTTG TAGCATACAA TAGTTAACAT TAGTCCTTTT ATTGCTATGG TATATGCTAA TTTTTTTAAA AGGGG

SEQ ID NO:690: (Length of Sequence = 291 Nucleotides)
TTAAAATACT CCATATATTT NAGAAGCAAT TGAAAATGCA TCCATGTATG TNATTTGAGC GTTACTAGAA ATTTATTTAT
ACAAATCCAT ATTAATGTGC TAATAAGTGA CAAATATATA TATAGTCATG CACTGAATAA TGATGTTTTG GTCAACGATG
AACTGCACAT ACAATGGTGG CCCCATAAGA TTAAAATAGA NCCAAAATTT CCTATGGCCT AGTGATGCTG TAGCCATCAT
AATGTGGTAG TGCAACCCAT TACCTTTTCT ATGTTTAAAT ATACAAATAC T

SEQ ID NO:691: (Length of Sequence = 451 Nucleotides)
TTGAGCATCC GGAATATGGA GAAGTAATTC AGCTACAGGG TGACCAACGC AAGAACATAT GCCAGTNCCT CGTAGAGATT
GGACTGGCTA AGGACGATCA GCTGAAGGTT CATGGGTTTT AAGTGCTTGT GGCTCACTGA AGCTTAAGTG AGGATTTCCT
TGCAATGAGT AGAATTTCCC TTCTCTCCCT TGTCACAGGT TTAAAAACCT CACAGCTTGT ATAATGTAAC CATTTGGGGT
CCGCTTTTAA CTTGGACTAG TGTAACTCCT TCATGCAATA AACTGAAAAG AGCCATGCTG TCTAGTCTTG AAGTCCCTCA
TTTAAACAGA GGTCAAGCAA TAGGCGCCTG GCAGTGTCAA GCCTGAAACC AAGCAATACC GTCATGTTTC AGCCAAGCCC
AGAGNCCTAA GGTTTACAAA CAAACTATGG NCCGGAACCT CCTCAAGTTC T

SEQ ID NO:692: (Length of Sequence = 363 Nucleotides)
GATTTTNTGA TTATTGATAT TAGAAATGTT TAAAATTAAG ATATTAACAT TTCATGAAGC TGAGTGGTGA GCACACCAGT
TTTATATTCT CTCTATATAA CTTTGTGTAT ATTTGAAATG TTTTCTCATA AAAAGTATTT AAGCAAGTTT AGGAAAGAAT
ATTGATAAAT GAAATCTAGA GACCATCAAA AGCCAATTTC ACCATCACAA AGTATAATTG TGTTTCAAAT ATAATTGAAA
TTGTGTGACT GTTGCATATT CTCTTTTTTG TTGTTGTTAA TGAAAGCATC TTAAACAGTT GCCTTTCAAA GCTGTTATCT
TTGATANTAA CATACATTAA CCTAACATTG TGGACTTCTG TTA

SEQ ID NO:693: (Length of Sequence = 269 Nucleotides)
TTAAGGGTCC CAAGACTGCT CTAACAACAA CACCCATTTC CATAAATATG GNTCAATAAA CACTTATTCA TTCTTTATAA
TTAGACTCTA TTGTTAGAAT TGTTTTAGGT TTATAGAAAA ATTGAGCAGA TAGTACAGAA GATTGCCATA TACCCCTCAC
CCACAGAATT TCACAATTTA CCCTGCGATT AAAGTCTAAT GTTAATATGA TATATTTAGT ACAAGTAGTG GGATTATATT
GATACATTAT TATTAATTAA AATCCNCAA

SEQ ID NO:694: (Length of Sequence = 330 Nucleotides)
GGCATAGTCA CTTCCAGACA TGGTTGCCTC TCCATGTGGA GTAGGTCAAA GTCTCCGTCC TCCCTGGCCA GGTGGAAGCT
CCAGAGGGAC ATGTTTCAGC TTAGTACAAG GTGGCTGACA CTACTCCTCT GTAGGAAGAG GCTGGCTGGA GGTGAGGGCG
CCCCACTCAG CCTGTACCCA TCAAGAAGTA TTCAGAAAGG ATGTCTCTGG CATCCACAAG ACTACTGGGC GAACCACACT
GCAAAAATGA AAACTAGCGT ACACAATTTA AATTGGTCTT AAACAAGCAA ATAATCCAGC CATTGGTGAC TCTGGGAATC
TAGAGTGCAA

SEQ ID NO:695: (Length of Sequence = 344 Nucleotides)

222

CACTGTGACG GATGAGTGGA TATTTCTTTG TACCCTGAGC TCTTTCATCC TACCTTGGTG GTCAAATGTG AGAGCAAGTG
CTTTGGGGCT CAGAGGGCAT CACTCCAAGC ATTCTGCATG GAGTCTGTTG TGGTGAATGT NCTTGCTGGC ATCTTGATCA
AGGACTTTGT CATCATTAGC CATCAAATGC TTGTTGGTCC TTCTCAACCC TGTAATGTTG ATACTTAAAA AACTGGAAAC
ATCCTGACAG AAACAGTCGA GAAAGTGGTT GTGTGAGCTC TGGTTATCGC ATTACAGTTA AAGTTGGCAG ATAGGTTCTG
TATTCAGTGC CCCATCAAAA ACAG

SEQ ID NO:696: (Length of Sequence = 324 Nucleotides)
CTTGAACGTG GCAGATAAGC ATTTTGATAT GCTGCTGGAT TCAGTTTGCC AGTATTTTAT TGAGCATTTC ACATCGATGT
TCATCAGGGA TATTGGCCTG AAATTTTGTT GTTGTTGTTG TATCTCTGCT AGGTTTTGGT ATCAGGATGA TGCTGGCCTC
ATATAATGAC TTAGGGAGGA GTCCCTCTTT TNCTATTGTT TGGAATAGTT TCAGAAGGAA TGTTACCAGC TCTTCTTTGT
ACCTCTGGTA GAATTGGCT GTGAATCCAA TAGACACAAT AAAAAAATGA TAAATGGGAT ATCACCACTG ACCTCAGAGG
AAAT

SEQ ID NO:697: (Length of Sequence = 341 Nucleotides)
AATTAATCAA TCAGCCATTT TGGTGGCCGA AATTTATAAG GCAAGTAATA CTTTTAGTTT CTTTGATAGA CACCATGATC
AGAAACATAG TCTCTTTCTT AAAGGGAAAA TAGGAAGTCT TCTGAGTCAT AACAGATGCA TGCATAAATT TCTCTGAGTC
TTCATAAGAA ACACAAGCAA GATTTCACAG AGGCAGTGGA ATTTGAACTG AGTCTTGAGA AATAAGCAAT ATCTGAACAT
GTAGAATGCA AAATAAAGGA TAAGCAAGTG CTAATGCCCA GAGGGGTAAT ACATATTAAA TANCCANTAA CCAATTGCTA
CTTGTGTTTC TTACACTAGA A

SEQ ID NO:698: (Length of Sequence = 317 Nucleotides)
GCAAACCAGG AGAAGCAGAA GAGCAGGGTA AACCCTGGGT ATAATTTGTC TAGACCCCCA TGTCTCCTTT AGTCTGAGTT
CTGACATAAT TAACTGTCTA TGAGATGTAC TGGGCCTTTC CTCATTGCTT TTTGATGCCA CCTCACTAAT GTAAACAAAA
CATTCATTTT TTCATCCTAT TTTTTCTTAC AGCTGCTTAG CACAGTCCTT ATGAAAAAAT GAAGCCTTGA AAATGGTATA
TCCTCTCGAC AAAGCTAAGC CTGACAAGTT GGCTGCATTA CCTAGGAATT AGAGAAGAGC AAGGGCAGAT GGTGGGG

SEQ ID NO:699: (Length of Sequence = 385 Nucleotides)
ACCAGGAGAT GGAGGTGCTC TAGACTGTGA TGCTGGGAAA GGATTGTGGG CTAGAAAAAG GGCTCCCTAG GGCCGGCATA
TGGGCCACTG GGTGGAAGAG GGGCTCTGAG ACCCTCACCC TGGAGCAGGT CATCACCCAC ACCGAAGAAT GAAGCGTGAA
TTCGGTCACG CTTAAAATGT TGAATTGTTG GCAAAAGCCC AAGTTAATGA AATAGCATGG AAAATGGATG TGATGAGATT
TTTGAATTGT AATTAGATTA ACATTGTCAC TAGTTATCAG TCTGATATAT CTTATAAATC AAACGTTGGG TTGATTTATC
TTTTATCACT TCTAGGGNCT TACTCCTAAC AGTAACTCAC AAACCCAGCC CCAAATCAGA GGCTT

SEQ ID NO:700: (Length of Sequence = 315 Nucleotides)
ATCAGTTGGA TTTGCAGAGG ATTGGAAGGC AGCACCAGGC AGGCTCAGAC TCACTGCTGA CAGGAATGGC TTTCTTTAGG
ATGAAAGAGT TGTTTTTTGA GGACAGCATT GATGATGCCA AGTACTGTGG GCGGCTCTAT GGCTTAGGCA CAGGAGTGGC
CCANAAGCAG AATGAGGATG TGGACTCTNC CCANGAGAAG ATGAGCATCC TGGCGNTTAT CANCAACATG CAGCAGTGAT
GGCGCCAGGC TCTTCAGGNT GGGCCTGATC CCNCAGTGGT GCTTACTNTG CTGACTGTGT ACTTATCTTC CCCAA

SEQ ID NO:701: (Length of Sequence = 387 Nucleotides)
GGCAGGAGAA TCGCTTGGGC CCGGGAGGCA GAGGTTGCAG TGAGCCAAGA TCGTGCCACT GCACTCCATC CTGGGCAACA
GAGCGAGAGT CTGTCTCAAA AATAAAAAAT AAAAAAAAAA GGTAGGTCTT TTCATCATTG TGTTTTCTNG CATGTAGTAC

TGTAACTTCC ACCTACTAGT AACTGAAAAC ACGCATGTGG GAACATTGCA CAGATGGATA GATGCAGAGA TGAAAGAAGG
AAAGCTAAAA TATTTNCCAC GTGAAAACCA TGCATCCTGT TCAGAAACTA ATTCTGCCTT CACGCCTTCC AGGAGCATGG
GAGGGGTGTC GTCCTGGNCC TTTTGTGGAT GAGGGGGACC ACATGGTATT TCTACTGAAA GAGTTTT

SEQ ID NO:702: (Length of Sequence = 397 Nucleotides)
CATCAAAAAA AAAAGGAGCT AACTAGATGC TGTCAATAAG AGACTCACTT TAGATCTAGA GACACAGGTT CAATGTAAAG
GGATGGAAAA ACATATTCCC TGTGGAAATC CCAATGAGGG TGCTATGGTT TTGCATGTGG TTTGTCCCCA CCAAAACTCA
TGTTTAAATT TAATTGCCAA TGTAATGGTT CTGGGAGCCT GGGCCTTAAG AGATAATTAA GATGGATTAA TGTCTTTCCC
ATGAGACTGG GTTAGTCGAG ACTCTTGCAA AAGCATGTTG TCGTTAAGTG GGTCATCCTC CTTTGTCCTG TCTCTTTTAT
ATACACTTCT TTCCCCTTCT ACTTTTCCAC CCTATTATGG AAGCACGGTG AAGCCCTCAC CAGATGCCAC CACCATG

SEQ ID NO:703: (Length of Sequence = 374 Nucleotides)
ATACAGGGTT AGACCAAAGA GGGAATTCAA TGAGGCCTGA TGGATTTATG GACCAGAACA ACAGAGGGGT CTTGAAGGAA
GGAAGATATA GAAAAGGCAA GGTTGTGGTT AGAGAGGAAA TCCCAGAGTT TTAGCTCTGG GAGGTGTAAT AATTTCAAAA
GAATAAGTCC AGGCCTGGCC ATGACATGGG AAGCTGAATC TCTGCAATGT TTTTTCAAAT AGCATAATGG ATATCTTTGA
CTCCTACCCT GAAGCCAGAA AATATTAAAC TTGCATGTAT AATCATACAA ATGTATGCAT ACCTATTTAT ACATACATTT
ACATATTTTA TACTTATGCT TTCATATATT CTACGTGAGG TACAATATAC TCCA

SEQ ID NO:704: (Length of Sequence = 422 Nucleotides)
GGCAATGACA TAGAGATGAT AAGAAACAAC ATGGTTTGGT AGAGGGAACA TTTGATTTAG ACTCTGCCCA TTTTTAGCTG
TATGACTTAC ATAAGTCATT TTGTGTCCAA GCCTCATTTT CTCCCATATG AAAAGTGAAG GGGTTGGATT AAATGACTAA
AATCCCCTTC CAGCCCTATG AGCCCAATGT ATTATGATCT CTGCTTTGTT TCCTTCTTAA GAGGCTTCCT ACTATAAAAT
GTGACCTATT TACATTTTAA GTTGAAGTAG CCCACAATAA TGAATAATCA NTTTAGATTT TCCTCATCTC CTTTGGGAGA
AATTAAATTC AAGCCTCTAT TCATTTGATG TTTTACAACA AGCTTCAAAG TTGGGCCATG GTTCATTCAC AGTTTTGATA
TTTTGAGGAC ACCAATAAAA AG

SEQ ID NO:705: (Length of Sequence = 229 Nucleotides)
GCTGCGGNTC ATAACAGCTG GACTCACGCC GNTGACAGAG TCTTGATCAG TCCTCTGGGA ACTAGACGTC AGGCTCACAC
CACTGTCTGC GCTGATCTGG GNCTTTTTCT CCTCTGTCTC ACCAAGGTCA AAGACAGGTT TGATTACTTC AGGCCTCTGT
TTTTCCAAAG NTTTTTGCTT TNNCACTTCC TGGTGCTTGT TCCACAATTC AATAGATGCT ATAAAATTT

SEQ ID NO:706: (Length of Sequence = 255 Nucleotides)
GAGGACTGTN TACCTCAGTC CTCTCTCTAA ACTCCTCAGC CTCCCAACAG GGGCCTCCTC ACCTGGGTTC TGAGTGTGTA
CCCCTTTTAG AGAGTGAGAT GCCACCCGGG CAGCACTCGT TAAAGCTGGC CAGCACGAGT GACTAAGGGG AGAGAGCATG
ACATAGACCT GGGTGGCAAC GGGGACCTCT GGAAGCAGGT GGGAGTAACA NAGGAGAGGG CAGTNGAGGG TAGAGGAAAA
GGACCTCCAG AGGTT

SEQ ID NO:707: (Length of Sequence = 324 Nucleotides)
CCGNGAGTGT GCCACTGCAC TCCACCTTGG TGACAGAGTG AGACTCCGTC TCCAAAAACA AAAAAAACAA AGTTGAACTA
TAAACTGAAT TCCTCCCAAG GTTAGTTCAG CCTATGCCCT GGAATGAACA AGGACAGCTT GGAGGTTAGA AGCAAGATGG
NGTCAGGCCA GATCTCTTTC ACTGTTAACA TTTTCTCAGT TATAATTTTT GCAAATGTGG TTTCAGTCCC TGCATCCATA

ATACCTAGAA ATTTTGATAA ATACTTGTTA AACAACCAAA AATAAAACAT CCACAGCAAG GANTCGACTA TAAGGCGTTG
GTGG

SEQ ID NO:708: (Length of Sequence = 325 Nucleotides)
GGGCTCATAC ACAGTTTTAT TTCCTGTTGA TTTTACAGAC ACTCCATCCT GCAAGCCCAT TCCCTTGGAA AACCCAGAAA
GAGTGGGCAC AGTGCTCCCT AGAGGAATAG AGGGGACAAG ATGGCTGCCA GGGAGAGGGC AGTTGAGGCA CTTAGGGATT
TACTCCGGCC CTGATGGAAG ATCTGGTGCC CAGGGTAGGG GGAGAGGGCC TGGGCTGGGC TGGAGCCTCC TAGGTATTTC
CCAGAAGCCC CTTCAGGAAC TGTCACCTGG ACTCCAGCAC CACCCCTCGT CATGTTGTCA CTTCCTGTGG TGGCGGGAGC
GCAGG

SEQ ID NO:709: (Length of Sequence = 264 Nucleotides)
GGGCCCGGTT GCATGAGGCA CTTTGTCAAA ATGAGCAGAT ACGTATGAGC ACTGAACTCT TGAGTGAATC AACCAGAACT
AAGACCCAGA TCCACGCACT CAGGAACTTG CTCTGAATTT CAGTTTGACA ACAGAGAAGT AGAATATTTC TAATTAGCTA
ATATATATAC ACATTTTTTA ATCATCCAAA ATTACAGGCA AATCACTTAA GGTCCCCAGC ACTTTACGNT GNAAGGTCAG
AGAGANCCCC ACAAAAAAGG TGTT

SEQ ID NO:710: (Length of Sequence = 366 Nucleotides)
ATTTTTATTA TATACATATC AGTACTCACA ATACGTTGCT TATTTAAGAT GGCTGTTTAT AAGTATAAAG CAGTTTGAGC
AACACTGATT GTGCATTATT GTACTTCAGA TGAAAAATCC TTACATGCGG AATCAATGTC TTTTAAAATT TCAGATAAAG
AATTTNCATT TGAGGNGACA TACAATTGTA AGTGCTCATT TTTTGTCAAT TTTAAGACAC CATTATGTGT AAGANGGATT
AATTTTNCCA TAAAATTACA AACACCCTCC ATGTCTTGAC ATTCACATGG AAAGGGCAGC ATAACCATTT AATCATCCAA
ATGCATATCA GAGCAAACTC CTAGGGCCTT TAGGTGTGAG GGTGGA

SEQ ID NO:711: (Length of Sequence = 216 Nucleotides)
GAAAAGCAGA AAAAAGTGGG GAAGATTTTC TATCTTGAAC TTGTGAGCTG GAGAATTACC ATTAGTAGCC CACTAATAGG
TTATGGCCGA TGAGTCCCTT CATAACACAC TGAGAGCCAC TTTTGACACT CCCAGAAAAG GCAGGTTAAC AAAACCCCTT
GATGGAAGCT TAGACCCTCA TTGCCCAGTG TACCCAAGCC TCTTTGAACC TTGCCT

SEQ ID NO:712: (Length of Sequence = 276 Nucleotides)
ATTTTTTTCC CATAGCACGT ATCACTCTCT CATGTGTTAC CTGCTACACT AGAATTATGA CCCCTAAGAG GGAAGAGACT
ATGTCAGTAT CATTGATTCT NATTAACACC ATTATTTAGA ACCATGCTTG GCTTAAAGTA GTAGCTGCTC AGTAAATATT
TATCTATGTG TGAATTTTTA AGTNCTTCCT TTATATTGAN TTAAAATTAG TCTCTTGTGT GCAGCAGTCT GGGTTTGTCT
TATGTTGAAA TACTTATGTN GACTTCTACA TACATT

SEQ ID NO:713: (Length of Sequence = 354 Nucleotides)
AAACTTTACA ACCTGCACAT TTGTTATGCA TACTAAATGG TGTGTTAAAA TTAGGGTTTC TTTGCCTCTC TACACTACAC
TAATCTGCCT AAAGGTGGTT GTTTCATATT TATAATGCTA ATTATCATAC CTACCTACTT TAAATTTTAG GTAGAAAATT
ATCTGATTTA AATACAAACA TATTTTTCTC ACATTGAGTA ATATGCATAA TGTAGTTCCA AATGTATTTC ATTACTATAG
TCACAATATC CAACTAAAAA TTACGCTATC TAGAATTGTA CCANCCAAAA TCTCGTATTG GCAGATCTTG ACAGGCTGGA
CCTGCTAGTA TCTGGCTTGG AATTTTAAAC CCAT

SEQ ID NO:714: (Length of Sequence = 349 Nucleotides)

CAGTAATTCT CTTACATCCT TCCCAAAAAT CAGTGTCTAG GGACTAGTTG ATCTGGATGA GTTATACATG ATATTTGACT
TTNCATAAGT AGTGGAAGGT TTCACTAAGT AAAGATCTGA GTTTCTTGGT ATCTGACGTT TGTATACAGA TGGTGTCCAT
TTGCTCAACC AGACAGGAGT TAACTTGTAT TAGAATTGTT TTTNCTAAAG TNATGTTACC TGAGAAATTA AGGACTGCAC
CTGGTTTAAT GTTGCTTCAC TTATCCCACC CTACAGAGAC CAGCAAGGTT CTGCCAGGCC TCGAGCATCC AAGCATGATT
TTCCTGTGAC AAAATCTAAA AATCCAACC

SEO ID NO:715: (Length of Sequence = 302 Nucleotides)
ATATTTGAAA AGATCTTCAC CAAAGATATA TGGATAGTAA GTAAATATAT GAAAGGTTTT CACTGTTAAT GATTAAAGGA
AATGCAATCT TGTACATGAA TGTTTATAAC AGCATCATTC ATAAGAGCCA AAAGGTAGAA ACAATCCAAA TGTTCATCAA
CTGATGAATG ANTACACAAA ACATAGTATT ATCTATATAA TGGAATATTA CTTGGCCATA AAAAGAAATG AACTGGGCCA
GGCGCAATGA CTTACGCCTG TAATCCCAGC ACTTTGGGAG GCTNAGGTGG GCGGACTGCT TT

SEO ID NO:716: (Length of Sequence = 314 Nucleotides)
GTATTTTTAG TAGAGACGGG GTTTCACCGT GTTAGCCAGG ATGGTCTTGA TCTCCCTACC TCGTGATCCG CCCACCTCGG
CCTCCCAAAG TGCTGGGATT ACAGGCGTGA GCACCTGCGC CCCACCCCAT TTTGGTGTGA TCTCAGCTCA CTGCAACCTA
CCCCTCCCAA GTTCAAGTGA TTCTCCTACC TCAGCCTNTT GAGTAGCTGG GATTACAGGG GTCTGCCACC ACGNCTGGCT
GATTTTCCTA TTTTNAGTTG ACACTGCATT TCACCAGGNT GGCCAGGCTG GTCTCGATCT CCCTGACAAG AGGG

SEO ID NO:717: (Length of Sequence = 279 Nucleotides)
ATAAAAATGC TACAGATTTT TGTATGTTGA TTTTTTATCA TGCAATTTCA CTGAATTTGT TTTTCAGTTA TAACAGTTTT
CTTATGGAGT CTTTGGTTTT TNCCAAATAC AAGATCATAT CATCTGCAAT CAAGGATAAT TTGACTTCCT CCTTTCCAAT
TTAGATGTCC ATTATTTTTC CTCTTGTCTG ATTGCTCTAG CTAGGATTTC CAGTACTATG TTGAATAACA ATGGTGAAAG
TGGGTATCCT TGTCATATTC CAGGGTCTTG GAGGAAAGG

SEO ID NO:718: (Length of Sequence = 161 Nucleotides)
AAGAAAAAAA CATAAATAAT ATTAGAAATG GAAAAGTTAT AAATCAACTA CAGCAAGGNT TTAAAACTAT TATGAAACAA
ACCAAGTAGA AAGTAGATCT GCCAAACAAA AAAGGAAAGA NACTGTTTCT TTCATAAATA ANTGACAATG GGGGAAAAAG
A

SEO ID NO:719: (Length of Sequence = 220 Nucleotides)
GACAGAATTT TTTTTTTTTT TTTTTTTTGA GACAGAATCT CGCTCTGTCA CCCAGGCTAG AGTGCAATGG CGCAATCTCG
GCTCACTTCA ACCTCTGCTG TCACAAATAA ACATCAGTAA GAGCCAGCAG TTGCTCTAGG ATCTCAGTCA GCAAGCTTGG
GGGCTGTCAG GAAACCAGCA GTCACCTGTT TCTCCCTCTC CCAGCCCAGG CTGACCCCT

SEO ID NO:720: (Length of Sequence = 347 Nucleotides)
AGAAATGAAA GCTACATTAA CGAAAAAGGA ACTTAGGAAT GAGGTCATTA AATATAACTA ACTACATTTT AAATACGGAT
ATCATATATT TCCTGATTAG TATCAGGTAA ATATCTAGAC TCCTATCCTG AATTCCGGTC TCAGATAAAA AGGTCAGAGA
CAATTACAAG GAAGATGCTT CATATTATCA GGTCAGTATA TACCTAATTA TGTGCACTGG AGAGTAATTT ATTCTTCATT
ATCATTTGTA AACATTGTTT TTTCACATTT TTGTAGTTGT CCATAATGTA AGCTTGTGGG TTTGATTATT GTTTTCCACA
CTGGATCCAG CTGGTTTAAA CCTATTT

SEO ID NO:721: (Length of Sequence = 313 Nucleotides)

AAAAGATTTG AACAGATAAT TCATCCAAAA AAAATATGGG TGGGAAAAAA AGCACATGAA AAGATGCTCA ATATCATTAG
ACATTAAGAA AATATAAATT AAAACCACAA TGCAATATCA CCTCGTATCT ATTAGAATGT CTAATATTAG CAAGACTGGC
CATATAGAGT GTTGGTGAGG ATGTGAACAA CTGAAACTCA TACACAGTGC AGGTGGAAAT GTAAATGATA CAATTTTTTT
GGAAAAGAGT TGGCTGTTTC TTCAAAAGTT AAACATTACA TCTGCCATAT GNTCCAGACA TTCCACTCCT AAG

SEQ ID NO:722: (Length of Sequence = 266 Nucleotides)
ATCGTGCCAC TGCACTGCAG CCTGGGCGAC AGAGGAAGAC GCCATCTCAA AAACAGAAAA AAAAAAAAAA AAAAAAAAAA
AGTGCAGCTC TCTAATTGGG CTCTTTTACT TACTATTTAT ATAATAAAAG CCACGTTCCT AGGCTGTATA ATGGGGTTAA
TCATAGTAAG TACCTTGTAA AGTTACTGTG ATAACCAAAT AAGTGANCAT AAGTAAAGCA TTTTACATGT GTGCAGCTTA
ATAAGTTGGA GTTGTGACTA TTATTT

SEQ ID NO:723: (Length of Sequence = 370 Nucleotides)
ATTATTCATG AAATAATCCA TGTAACATCA CTTAGCACTG AGAGTTAACA AAGGCAAATG TTACCTGAAT AGGAGGAAAC
AGAGGAAGAA CAACGAGGTC TCTTTTATCT ATGCTAAGCT TTGTCTGAAT AGGAGAGAAA TGTGTGGCCT GTTGGTGAAT
TTATTGCTTT GTGGTAGTAA TGGATTTYCC TAAAGCTGTT TCCCTCTGAT CATTAATAAT CCCTGTACAG CAAAGGACTA
TTGTCCTTTG GTATGAGTAA ATAACCCTGT TGGAAGCACC GCTTATCTTC AGACCACAGC GCATACTTCT TACTGGAAAA
TATAATGCAG GTGCCAACAC CCAAAGGGCA TGACCAGGGG TTCCCCTTCC

SEQ ID NO:724: (Length of Sequence = 478 Nucleotides)
GGACACAACT GAAGTGTGGA AGAAATGAAA GGGCGAAGGT GTGTTTTGAG AAGGCTCTGG AAGAAAAGCC CAACAACCCA
GAATTCTCCT CTGGACTGGC AATTGCGATG TACCATCTGG ATAATCACCC AGAGAAACAG TTCTCTACTG ATGTTTTGAA
GCAGGCCATT GAGCTGAGTC CTGATAACCA ATACGTCAAG GTTCTCTTGG GCCTGAAACT GCAGAAGATG AATAAAGAAG
CTGAAGGAGA GCAGTTTGTT GAAGAAGCCT TGGAAAAGTC TCCTTGCCAA ACAGATGTCC TCCGCAGTGC AGCCAAATTT
TACAGAAGAA AAGGTGACCT AGACAAAGCT ATTGAACTGT TTCAACGGGG TGTTGGGAAT CCACACCAAA CCAATGGCTA
CCTCTATCAC CAGATTGGGG TGCTGCTACA AGGCAAAAGT AAGGCCAAAT GCAGANTACA GGGGGATCTG AAGCTAGT

SEQ ID NO:725: (Length of Sequence = 356 Nucleotides)
GACAGAGGAG AATAAATGGA ATAACTTAGT TTTGTGAAAG ACTCACAGTA TCACTTGGTT TCTGGACACG GTTCGAGACC
TGGCTGTGGC TTGCTGTGGC CTTGAGAGCC ATCCCACAGC AGCAATGCTG TTGGACCCTT TGGCTGGGAC CTTCAGGACC
CCCTGCAACA GCACTGTGTN CCTAACCTGC TGGCATGATG CCCCTTTNTT GACAGGGCTG CATACAAGGC CAGCGACAAG
TGGCAGGCAG TGACGCCAGC CTGGATTTGC TGAGGGCACA CGCCATGCTT CCTGCAGTGC CAGTGCTCTT CTNGGTCCAC
TTTGCAGCAA GGATAGATGT GGTTCTAGAT CCAAGA

SEQ ID NO:726: (Length of Sequence = 387 Nucleotides)
GTGGTAGAGT AAATCCTATT ATATCGAGAT ATTGGTCAGG CAAGAATTTT NCTTTTAAAA TAATTTATTG TAAATGAACC
ATAAAATTTT NACCTTTGTG CCATCTTCTA GGCTATAAAA TAGTCTTATA AAGAATCAGA TTGTTAAGAG TATATGAAAT
GTGGATATGG ATGTGGAAGA TCCATAACGA GGATGATGAA AGCACATTAA GAAGCTTTCT GATGGGTACA AAAAATAGAA
TGAAGAAGAT CTAGTATTTG AGAGCACAAC AGGGTGACTA TAGTCAACAA TAATTTATTG TGCATTTTCA CATAACTAAA
AAGTATAATT GGGATTGTAA CAGAAAGGAT AACTGCTTTG AGGTGATGGG ATACCCCATT TTACCCC

SEQ ID NO:727: (Length of Sequence = 348 Nucleotides)

228

TACCTAGCTA GCCCTCAACC TCTTTGTTTT ATGAATGGAA AGGCTGGGAC CCAGACAGGG CAAGTGACTC ACCCAGTGTC
ACAGAGCTGT TAAATGGCAG AGCATGATTG AATCGGCCA TGACTACTTT CCTACATGAC ATATTGAAAC CAGTTTGAGG
CCTCGGTTTC CTCTCTNGCA AAACAGAGAT ACTAATG

SEQ ID NO:734: (Length of Sequence = 374 Nucleotides)
TGGTGAAAGA AGAGAAGGAA ACCTTGGTCT GCATGGCACT TGGTACTTTT GTATTGCCTC CATGCCCTCC ACTGCAGCTC
CTGCCCTGCT CTGTGTGCAT CCCTCATGAG ACTCAAGACA GATAACCTCT CCTTGCCCTT TCATGTCCCA GCCCTGGNTC
TTGGACTCAA CCATCCATTG CATCCCCATG GAGGATTCTG CCAGTCCTCA GGACTCAGGA GCAACCCAAG GATGTCCCAG
GGTCACAGGA AGACTTGTTG AGGGGACCCA CAGGGGTGCC CACAAATTAT CAGTCCATGG AGAAAAGTAG AGAGGGAGGC
TCAAGGACCT CAGCACGTAA GGGACATTTT GAATTCTACA AGTCACGGTG GGAT

SEQ ID NO:735: (Length of Sequence = 348 Nucleotides)
CCCAGCGCCT GGAGAGCCAG CCCTGCAGGG TGGGCTGGGC GAGCCAAACT GCGTTCCTGG TGCAGGGCTT CGGGTCTCCC
TAACAGACCT TATACGCTGA CCGGCGGCCG CCATGGCAGT GTCTCTTTGC TCAGACATCC AGGGACGACC ACATTCGTCC
AACAGCGGTC GCTCCACCAA TCCTGGGAGA AGCGAATCGT TTTCTCCGCG TGCCCTGTCA GCCGCTCATG GTGCCCAGAG
AGGAATTTTA GTGGCAGCAT TCCGGCTGTC ACGCCACCGA AATTGCCAGG NCACTCCAAG TCAGAAGGAC CACCAGGAAA
AGTCAGGAAG AGAACCACCC ATCAAGGT

SEQ ID NO:736: (Length of Sequence =   Nucleotides)
ACACTCCTGA CCTCAGGCAA TCCTCCCACC TCAGCCTCCC AAGGTGCTGG GATTACAGGC ATGAGCCACT GCGCCCAGCC
TACACACACT CTTAATAGAA GAAATGAATA ATCAAAAAAT ATTATTGTTG GAAAAAATGT TTGAATCTTA TTTTAAAAAT
AATTAACGNT TTCAATAGGC ATGTTGAACC TTTTTTCGGC TACTGTTTTC AGCAATTGCA GTTGAATGAG TACAAAATGC
ACCACAGAAT AGAGACTGCT ATCTACCCAA ATATTGCTGG TTGTTGAATC CATGGTAGGG AATTTNCATG TATTGTTACA
ACCNGCTATA AATACATCCC AAAATATGTG TAGAGCTAAA ATAGATG
367

SEQ ID NO:737: (Length of Sequence = 243 Nucleotides)
TTAATCATTC AAACTTCATT TTATACAACG AGTGCATACA CCACTGGGGG AGTNTCTGAC TGATGCGTGG GAGGGCGGGC
GGGGATGTCT NCAGCTATGA GTAGGGAGGA GGCGGGGAAG CCCTGGGTGC TTCCTCTCCT CGACTGACCG CTGTGTGTTC
GTCCCCAGAG GAAGAGCGGN NGGCAGTCAG CCCCGGGGGG GATGGCACAN TGGAGAGACG GACCTGCAGA AGTGGTGGCC
AAG

SEQ ID NO:738: (Length of Sequence = 358 Nucleotides)
CGAGTCAGAG CTGGACAGCG GCGATGCCAT CTTTACATGG CCAGACCGAG AGAAGGGCAA ACTCCTGCAT GGTCAGAATG
GCTCTGTACC CAACGGGCAG ACCCCTCTNA AGGCCAGGAG CCCGCGGGAG GAGATCCTGT AGCCACCTGG TCTGTCTCCT
CAGGGCAGGG CCCAGCACAC TNCCGGCCA GTCCTCCTAC CTCCCGAGTN TGCGGGCAGC TNCTGTCCCA GCATCTGCTG
GTCATTTCGC CCTGACAGTC CCAACCAGAA CCCCTNGGGA CTTGAATCCA GAGANGTCCT CCAGGNAACC CCTCAACGAA
GCTGTGAAAT GAAGAGGTTT CCTCTTTAAA ACTGGTTT

SEQ ID NO:739: (Length of Sequence = 400 Nucleotides)
CATTTCTGGC CAGGCACGGT GGCTCATGCC TGTAATCCCA GCACTTTGGG AGGCCGAGGC AGGCGGATCA CGAGGTCAGG
AGATGGTCTA GACCATCCTG GCTAACACAG TGAAACCCTG TCTCTACTAA AAATACAAAA AATTAGCTGG GCGTGGTGGC

229

GCGTTAGTAT TTCCTTAAAT AACAGGTTAC AATAGAAAGA TACTGCCTGG AAGTTATCCT TTTCATTTTG GTTCATTTTC
AGTTTTTGTT TATGATTTAC ATAGCTGTTT AATTCATTTG CTTATAGTAC AATCCTGCCA TAAAGTATTA AAGCACAAGA
TACCTGTTAT TCCCTTCAAC ATCTGCATTT TTTCAAGNTT TTATACTCTA TATCCACAGT ATGTCAGCAG TTCTTGACTG

SEQ ID NO:740: (Length of Sequence = 374 Nucleotides)
ATCGTCAGAT TCACCAAGGT TGAAATGAAA TAAAAAATGG TAAGGGCAGC CAGACAGAAA GGTCAGGTTA CCCACAAAGG
GAAGCCCATC AGACTAACAG CAGCTCTCTC GGCAGAAACC CTACAAGCCA GAAGAGAGTG GGAGCCAATA TTCAACATTC
TTAAAGAAAA GANTTTTCAA CCCAGANTTT CATATTCAGC CAAACTAAGC TTCATAAGTG AAGGAGANAT AAAATCCTTT
ACAGNCAAGC AAATGCTGAG GGATTCTGTC ACTNCCAGAC CTGCCTTACA AGAGGTCCTG AAAGGANGCA CTAAACATGG
AAAGGGNATA ACTGGTACCA GNCACTGCAA AAACATACCA AAATTGTAAA GGGA

SEQ ID NO:741: (Length of Sequence = 290 Nucleotides)
AATTATTTCA TAATAATGTA ATAAACATTC ATGAACATAC CCTATCAAGC AAGAGCTAGA ACCTTGGCAA TCATTTCCTT
GACTCCTCCA GTTTGTGGCT ATCATGATAT TCAGCCCCAA GTTCATCATT TCTGTTTTTN CTTCTATACA GGTTTCTTAT
ATGTATTTCT AAAAATCATT GGTTATTTCA TCTTTGTAAA AAGTCATTGT NCTATTTTCC CCACTAGTTC TACATTGCAT
TCATATTGTT GTGGGTTGTG GTAATTCATT NATTTTGACT GCTGTATAAT

SEQ ID NO:742: (Length of Sequence = 274 Nucleotides)
TTAAGAGGAA AAGTATCTTT AGGAATTTNT TTCTATAGAG TTCTTCATTA ACATTTATAC GAGTTTTTTG CTGAGTCAGA
TGGACAGTTG GGTTCTGATG CTTTTNCCTT CCCGCCTGCC AGGCTGGCCC AGGCAGTGCT CCCACCANTC TATGAGCGTN
TCCGGGGCCG NGGATCTGGG CAGCATCCAT GGTGCCGGGG CCATCCCCAG CGGNACCACA AGGTNGCAGC GTTGNTCCAC
GAAANACCGN CTTTCCGCTC TGCTTCCCCA AAGG

SEQ ID NO:743: (Length of Sequence = 398 Nucleotides)
TTGCTTTGCA GTTATCTGGA ACTCCTCGTG CTCTTTCAGG AGCTCCTGGG TGTGCTGTAT ACTGGAGCCC GTGGAGGTGT
GTGTGGAAAG GTAGAACTCG CCATTGTCAT GGATCCATTC CAAAGCCTGC TTGGCACTCC TCTCAAAGAC CACGTACTGC
TGACACTGGT CCAGCCGTCT CTTCCTCATG GTCCAGTAAT GCAATACCCT GTTCTCCCGT TGGAAGAGTT CATTCAAGAT
ATTTTTCACT TGCTGTTCAG GAGCTTTGAT GTGCGTCACC ATTCCTGGCA TGTTCACGCT TGTTCCTGTG CAGGTATTTC
AGGAAGACGT CTGCATTNCT CCGAGCAAGN GGTGCAAGCC TTCAGGAATG CCTCCTTTNC TNCAGGGTGC GGTTTTCA

SEQ ID NO:744: (Length of Sequence = 359 Nucleotides)
TGCGACAGAG TCTTGCACTG TCACCTGGGC TGGAGTGCAG TGGTGCAATC TCAGCTCACT GCAACCTCTG CCTTCCGGGT
TCAAGCCATT CTCCTGCCTC AGCCTCCCAG GTAGCTGGGA TTACAGGCAC CTGCCACCAT GCCCAGCTAA CTTTTTTGTAT
TGTTTTTTTT AGTAGAGATG GGGTTTCACT ATGTTGGCCA GGCTGGTCTC AAACTCCTGA CCTCGTGATC TGTGCGCCTN
GGCCCCCCAA AGTTCTGGGA GTACAGGCGT GAACCACCGN GNCCGGCTGG GGCTGCTTAT TTAAATCCCC TAGAAAGAGG
GATTCTNCAG CTACACCACA CCCTTAACTT NGAAGGACC

SEQ ID NO:745: (Length of Sequence = 361 Nucleotides)
CCCTTAATTA AAAGTTTTAT TTTTAAAAAA CGTAACAGAC CACTCTAAGA AACTTTGGCA TTCAAAGCAG TAGTTACTGT
TATTTGCTAA CTCTGAAAAA AAAATTTTNC CCCTCACAAA CAACCGGCAA ACTCCTGCCA CTTCCTAGCT TGGTGGCTGC

CAGCGTGCAC TGCAGGGAAA CGGTGGGTGG AGGGATAGGA AGGCCCTCAC GCTCCCAACC CACGGAGAAA NTGCAGATGG
TGACAAGCTG CATCTGGACT CCAGGNTGTA TCTGACAAAG AGGGAGATGG TNTCCTCCNT CCCCTNCACC AGCTCCACTT
TTNCTGCTGA AGAAACAGAG ATGTGGAGGC AGGCGTGACC T

SEQ ID NO:746: (Length of Sequence = 285 Nucleotides)
GTGTTTTTAT TTATACCTAC AAAAAGAAAA CAAGATGATG GTATCAAAAG GACAATTTAC AAACTAAGAA TAGTAACATA
GCTTTCAGCA TCCTGTGCCT GAACATCACA CATCTACAAG TCTTTCAAGN CTTAATGCAA CAGGAATNTG TCTGGAGACC
AGCAAGANCA TCAATAGAGA GCACTGNTCC CAAGCAAAAG CCACTAACCT TTTAGATGAG AAGTCCACAC AACGGATTNT
TAGGGGAGGA TTTGGGNGAA GCAGCCCATT TGCTTAATAC ATTGG

SEQ ID NO:747: (Length of Sequence = 302 Nucleotides)
CAATGCAGTT TTAGAGTGCT CATTCTTTCA ACTTATTTGA CAAATATTTA CTGAATGTCT GCCATAAGGC AGTAAAGGCA
CAGAATGACT CAAAGCCTTT TTNCCCTTAT GGGGTGTAAT TNCTAGTGGT GGAGACAGAC AATGAGCAAG TAAACAATCA
ATCGGCTAAT GATAACTACT GTGAAGAAAA TAAAGCAGGN CAAGGGAATA GAGTATGCCA TCATTAAGAC TGGTTAGGGA
AAGCTTCTTT GAAGACATGG CAGCTATTGA AAACCTGACT GATACAAAGA AGCAAGTCAT GT

SEQ ID NO:748: (Length of Sequence = 346 Nucleotides)
GAGACCAGCC TGGGCAACAC ACTGAAACCC TCCTCTCTAA AAAGAAGAAA AAAATAAGAG TTTTGAGTTT TTCCAAAGAA
GAATGCTCAG TACGTTTGTN ATCTATCAGA AAGAAGAATC TGGAGGTCCT GACGTGTAAA CAGAGTTGTG GGTACCATCT
CACCAGAATT GCTGCCCTGA AGCCAAAGGA CTGAGCTGCT CAGATCTGGA AGTAATCTGA GCCCCCATTT CCAAGAAGAG
AATTGCAGAA TTTTATAGGA AGAAGGGACC TGATCCCTGT CAATGGAAGC ATTTTAAAAT TTTTAACTGA AGTTCCAGGA
GCATACAAAA AGCCAGGNAA TTTACC

SEQ ID NO:749: (Length of Sequence = 325 Nucleotides)
CTAAACTTTA TTTTCAAAAG CTTAAGGCCC AAATACAAAC TGAGGTCTTC CTTCCTAACA AATTAATACT AAAATGAAAC
AGCTTTTNTT GTGTCCTTAA GACAAAATAA GGAAGGAAAA CGTAGCTGCA GTTGTCCACG ATGGATATTG GTTCTTTAAA
ATATATCTGA AAGTAGTAGT CAGAATGANT TATGGTTGGA AAACTGAGGN ATCTTCTGGT TGCAGGTGCA AAGTGACTTT
NTTTATTCTT GTCTCAGTCT CCTTGATAGC CACTTCACTC TGCTACTACT CAACTTTCTC CTAAAAATAC TTCATCTATT
TTCAG

SEQ ID NO:750: (Length of Sequence = 341 Nucleotides)
TGTATTTTNA GTAGAGAAGG GGTTTCGCCA AGTTGGNCAG GCTGGTCTCG AACTCCTGAT CTCAGGAGAT CGGCCTGCCT
CGGCCTCCCA AAATGCTGGG ATTATAGGCG TGACACTGTC TCTGGTTTAA GAGAACCATG GGCTGAGATA TTNAGGAATT
CTCCAGGCCA CGAATCTTGG GGCATGCAGC CTCTTCCGTA CCCCACAGCA TCTNGGGGAG CTGGTGTGCT GATGGGGTCA
GCTCTCCCAG CTGCCTGGAA AATTCTCAGA CACTCCCTAA GAGGACATCT CCACCCCTNC CACTCTNACG TCACTGCTTT
CTAACATTGC TCATTTGTTT G

SEQ ID NO:751: (Length of Sequence = 377 Nucleotides)
TTTTTTGAGA CGGAGCTTNG CTCTGTCACC CAGGCTGGAG TGCAGTAAGC CCATCTCTGC TCACTGCAAG CTTACACCAT
TCTCCTGCCT CAGCTTCCCA AGTAGCTGGG ACCACAGATG CCCGCCACCA TGCCCGGCTA ATTTTTTTGTG TGTGTGTTTT
TAGTAGAGAT GGGGTTTCAC CATGTTAGCC AGGATGGTCT GGCCCTCCAG CTTCCTCTGA GTCCCTTCAT AAACATTTGT

TTATCTTGTA AAATAATTTG TTCCATTTCT AATTAGTACA TAATGAGAGA GGCAGTGTGA TGGTTTGTGC CTAAGNCCTT
TCTTGCCAAG ACTTTCAAAG CCAAAAACTT CANCAGTTTT CCTAGATGAC TAGACAG

SEQ ID NO:752: (Length of Sequence = 359 Nucleotides)
AAGTCAGGCG TTCCTGGGGC AGCTGTCCTG TGAAGTTGGT GGGACGTGCT ACCCTGGGCC AGCTCCAGGT GAGCNTGGCT
TCGGTGGTCC CCGTGGGCTC CTNAGTGGCG AGGGTGAGGC CTGGCACTGG GCCTCTAACT GGCCCCGTGG CCCTGCAGTC
TTTNGTGCTG GTGTCCCGCT TGCCCTTTNT CCGGCTGTTC CAAGCGCTGC TAAGCCTCAT CGNCCCCNAG TACTTTNACA
ANCTGGCGCC CTGNCTGGAA GCAGGTGAGT GGCCATCANT CGTGGTCATC TTGGNCTCAT NATCCCAGCT TTGGCCCCTG
GTTGGGCTCG GCAAGCAGCT TCTCCTTGGG GAGGGTCCT

SEQ ID NO:753: (Length of Sequence =   Nucleotides)
AGCTTCAACT TGGAAAGAAG GATGATGCAG TTTGGGCCC TCCGGCCATC AATNACCGAC AGCNCTTTGA CCTTGCGGGA
AGCCAGGTAT ATGTNTTCAG TGGAGCCCAG CTCTTTCTGG TGCCTCTGGT AGGCTGAAAA CATCTTTTCA AAATCCTCTA
GGTCCAGGNT CCGAAATACC TGCATGTCAT CAATCTCATT CCATACGGTG CCAGGGACAC GCTCCTCATT CAGCTTCACC
CAGTTGAAGG ACTTCAGTGG GTGAGAAGGC TGGGGACAC GCTTTTTCCT GAGTGGGACG

SEQ ID NO:754: (Length of Sequence = 342 Nucleotides)
CTGTTGAAGT GCAGGTTTGA TCCAGCCAGT ATAGAACTAG CTCTGTAGGG GTGAGGAGGA CTGTNCTGTG TATCATCCTT
GATTGTNTTC CTTCAAGGAG CATTGCACTG TAAGTACATC AGAATGACAA ATTGATGAAC TGCAACAGTA TCTTTTTGTC
AATGTTCCAC ATAATGCAAA TGCCATACGT TGTGTGAATA TTATGTTGGA ATACAGTGCT GATATCTTGG AAAACCATAA
CTGCCTCTTA ATTTAACATA GNGTAATACA TAGTNCTGTA TTTTTTTTAA AGTGAGCTNT AATGGGNAAG TATTTTTNAT
ATGCTTTAGC TATAGCTAAA GG

SEQ ID NO:755: (Length of Sequence = 321 Nucleotides)
CATTGCCATC TTCTCAGTCC TTCTCCCTTT CTTTCCAAGT AGTTTACGGC CCTAGGGCGA AGGTGGCTTT TATTTCCTCT
CTTGGGGAAG GAGGGGGAGG GAGCTTTCCC AAGCACATCA ACCTAAGGAA GGGGTGGTTG CNCCCCCAGC AGCGAGGGGC
TGGAACTGCT GATCATTCGG AAGGAAGGGT TCGTTCTTGT CCACTTCCTG GCCCTTGGCT GCAAGGGTGT GCTTNGCAGG
GGTCACTCCC CTTGGGGGTG GCAGCTCCTG CATCAGTNGA GGGCACAAGG AGGTATCTGC TGGTGTTCAC GAAGAGGAGG
G

SEQ ID NO:756: (Length of Sequence = 368 Nucleotides)
TGGCATGGTT GCATGTNCCT GTAATCTCAG CTACTTGGAG GCTGAGGCAG GAGAATTGCT TGAACCTGGG AGGTGGAGTT
TGCAGTGAGC CAAGATCGCA CCACTGCACT CTAGCCTGGG TGACGAGCA AGATTCATTT TCAAAATAAA TAAATAAATA
AATGAGAAAA AAATATAGAT ATAGTAAAGG GAACAATTAC ATTCTACAAT ATTTTAGCAG AAGTAAATAT GGTTTAATTC
AATGGAAACA GCTCTGCTCT ATNGAAAATT CACAAATATT AAAAATAAAC ACACTCTACA TTAAACCTCT GAGCACTAGA
NGCTTACCTA CTTATTCATA GGGCTCACAT ACTGTAAGGG GGGTAAAT

SEQ ID NO:757: (Length of Sequence = 339 Nucleotides)
CTTCCACTGC CAGGTTATCG TCCCGGGAAG CCCCCCACCC CCTCGNTTTC CTCCTCCGCT TTCCCTAACC CGTCTCGCGG
GGGCATCTAC GNCTCGTCCT CGNCCTCCTC CTNCTCGAAC TCCCCTTGTT CGTCGGCCGT GGCGTCCTGG TACTGCTGGT
ACTCGGACAC CAGGTCGTTC ATGTTGCTCT CGGCCTCGGT GAACTCCATC TCGTCCATGC CCTCNNCCGT NTACCAGTGC
AGGAAGGCCT TTCGNCGGAA CATGGCCGTG AACTGCTCGG AGATGCGCTT NAACAGNTCC TGGGATGGCC GTGCTGTTTC
CGATGAAGGT GGCCGACAT

233

ACAAAGTTGG AAGTACTCCT AATGGAGCGA AAGATTGCCT AAAAGCCATA ATGAAAAGGG TAAATCATAA GGTTCCACAT
GTTGCTCTGC AAGCACTAAC TCTTCTTGGG GCTTGTGTGG CAAACTNTGG AAAGATATTT CATTTAGAAG TATGTTCCCG
TGGATTTTNC AACAGAAGTA CGTGCTGTGA TTAAAAATAA GGGCACATCC TAAAGTATGT G

SEQ ID NO:765:   (Length of Sequence = 329 Nucleotides)
TTGTCTGCTT GATGCAGGAG CTGAGGAGCT GCACAGAAGG TTAAAAGAGC TGTAACACAA ACAGGGCTGC AACATGCCCC
TTGCTCCCCA CAGGGAGAGA AGAGCTCTGG CCCTCGGAGA AGCCCAGACC TGGGAGCTCC TTGAGCCCGG GCTGTGACTC
CCTCTTTGGG GCCCTGGTTG GCGTCACTGC ATTCGCCAGT GCCACTGTTG GAAGCTGCTT GTNATGCGCC TGGTCCAGGG
GGAAGCTGTT TGTTGTGTGC CTGGTCCAGC CACCTCATGG AGAGCCTGTG CTGGCACCTG GGAGCTGCCC AACCTGGGCA
GCAAGCTTT

SEQ ID NO:766:   (Length of Sequence = 321 Nucleotides)
GCAGTGGCAG GTAGATTTTA TTGGCCTGGG ACACACAGGG GATACCCTCA CCCACGATGG GGTGGGGGGT GTGGTGTTGA
AGATATAATC TNATGGTCAC TTGTGGTAGA ATCGCGGGTT CTGGCTGTNT TGGATGAAGG GGAGCCGAGG GCCAGGTTGG
CTGGTAGCTG CAAACCCGAC TTTCCTGCTG GCTGCATCTG CACAGGGAGC TGGGGGGAAG CAAGGAGTCC AGGGGCTGGA
TGCAGAGCTT GAGTCGGAGA AGCCAGTCTG CTGGTTAGCA TGTNCCATCT GCTTTTNCAA GGNCAGGGCA CCACCAGGCT
T

SEQ ID NO:767:   (Length of Sequence = 313 Nucleotides)
ACCGCCCCTC TAGTTCACTA TTCTGTCCCC GGTACCCAGG GCATCATAGA CACTCAACAA CCATTCGTTG AATATGCAAT
TGGATGAAAT GAATAAACGA CCAGAGGAAT AATCCAGACA GAGCAGCAGT GGCCAAGGGA AGGGAGGATT GATTTATGGG
AGAAAATTAG GGGAATGAAA TCCATAGAAA GGGTTTGCCT AAGTNAGAGT GATGACTNGA GCCAGAAGAC ACCGGGGGA
GAGGAATTNT TTCACATGGT AGGAAAAGGG GAGGAGGGAG AGAGGTGGGG TGGTGGAGTN CAGCCTCGAG GCT

SEQ ID NO:768:   (Length of Sequence = 372 Nucleotides)
TCTCTTCTCT GCCTGTTTAT ATTCTGCACG TCCTTAGTAA CCCCTGTGGC CCACTTCTTA CTTAGGTCTC TCCTAACATG
TATCTATGAC ACATTGATCC CTAACAGCTA TGATTCTNCT TATACTTTTN CAGTAATTTA AATTTTATCA TTCTACTGCT
TGTTCAATAC ATCTCTCTAT GTAAATCTTG ACTCCATAAT GAGGTTTTTA ACTTCGAAGG GGTTGGAAGT TATCTGCTGC
CTTGGTACCC CCCCGCCATT ACACAAGAGT ACATTTTAAG CACATTACAC CTGAGTGATT GTNGTAAAAC ACAGATGCAA
TCTTTCCACC ATCCTCTAGG AATTCTTCTG TGGGCTTTCC ATTGGGTTAC CC

SEQ ID NO:769:   (Length of Sequence = 321 Nucleotides)
GCAGCCAGAG CTCCAAGGCT CCCCGGGGCG ACGTGACCGC CGAGGAGGCA GCAGGCGCTT CCCCCGCGAA GGCCAACGGC
ATGGAGAATG GCCACGTGAA AAGCAATGGA GACTTATCCC CCAAGGGTGA AGGGGAGTCG CCCCCTGTGA ACGGAACAGA
TGAGGCAGCC GGGGCCACTN GCGATGCCAT CGAGCCAGCA CCCCCTAGCC AGGGTGCTGA GGCCAAGGGG GAGGTCCCCC
CCAAGGAGAC CCCCAAGAAG AAGAAGAAAT TNTNTTTCAA GAAGCCTTTC AAATTGAGCG GCCTGTCCTT CAAGAGAAAT
C

SEQ ID NO:770:   (Length of Sequence = 364 Nucleotides)
TTAAATCAGG AAATGTGATG CCTCCATCTA TGGTTTTTGA AAGTCATCAG CCAGAGCTAA GGTAATGAGG ATTCCCTCCT
TCATGTTCAT ATGTCTTTAC ACTGTGCACA ACTGTCCCTA AAAAAACAAA CCCCTGGCCA ATTTCTCCAG GCTTATCGTC
TCCCCGGTTT CAGTTACATT TCAGCTTAGC ATTTTCAAAA TAACAATTTG TTCTTGGCAG CCTGTCTATA TATTNNATTT

234

ACCTCTCTTG TTATCCCCAC TTTTCATGCT CTATGTCCCA TAGGCAATTT GACAAAGACT GCTTTGACAA AGGATTCCTA
GACTTCTATC TCTACCTCTC ATCTGACTTG GGCGGAGGAT TAGG

SEQ ID NO:771: (Length of Sequence = 357 Nucleotides)
CAGCTCACTG CAACCTCCAC CTCACAGGTT CAAGTGATTC CTTGCCTCAN CTTCCCAAGT AGCTGGGACT ACCGGTGCAC
ACCACCATGT CCAGCTAATT TTTGTATTTT TNATTAGAGA CAGGGTTTCA CTATATGTTG GCCAGGCTGG TCTCAAACTC
CTGACCTCAA GTGATCCGCC CACCTCGGCG TCCCAAAATG CTGGGATTAC AGGTGTGAGC CACCATGCCC GGCCTAAATT
ATAGCTATTT TAGAATGTTG AAAGTAGTAT TATGTGATTT CAGTTTGCCA TAAATTTTTC ATATGGTTAC TAATTATTTC
TNTTTTTGTG GATATATCTT CTGGAAATCT ATTGAGG

SEQ ID NO:772: (Length of Sequence = 359 Nucleotides)
CCTCTCAGGA AAACACCTAG ACATTATGTA ATGTATTTGA AGATTAATGT ACCCTTTAAC CAGCAGTTGT GTACCTAGGT
ACAAACTTTG CAAGCACACA CGCATGTNTG TNCCAAAAAG CACATACAAA AACACTCCTA ACAGCATTAT TTGTAATAAT
AAAATATAAG AAATTACCTA AATATCCATC GACTGCCATT GGTAGTATGG TTATACAATG GAATTCTACA CAGCAATGAA
AAGGAGCTAG AGCTACATGC AACAACATGG ATACAACTCA CAAACGTAAG ACTTAGTGGG AAAANGCTAG ACACAAAGTT
AACACCTTCT ATATGTGGGT TCCAGTTATA TAAAACCCA

SEQ ID NO:773: (Length of Sequence = 361 Nucleotides)
GAGCCTACGG CAGAAAAAGA AACATCTTCC TATAAAAACT AGACAGAATA ATTCTCAGAA TCTGCTTTGC GATGTGTGCG
TTCAACCCAC AGAGTAAAAC TTTNCTTTTG ATAGAGCAGT TTTGAAACAC TCTTTTTGTA GTATTTNCAT GTGTATATTT
AGAGCGCCTT GAAGCCTACG CTAGAAATGG AAATATCTCC CCATAAAACC AAGACAGAAG CAATCTCAGA AACTAATGTG
TGATGGCTGC ATTCCACACA CACGGTGGAC CATTTCTCTT GATAGAGCAG TTTTGAAACA CTCTTTCTGT AGAATCTGCA
AGTGGGATAA TTGGGACCTC CTAGAGGGCC TTCGTTGGAA C

SEQ ID NO:774: (Length of Sequence = 387 Nucleotides)
GTTTCGCTCT TGTTGCCCAG GCTGGAGTGC AATGGCGCAA TCTCGACTCA CCACAACCTC CGCCTCCCAG GTTCAAGCAA
TTCTCCTGCC TCAGCCTCCC GAGTAGCTGG GATTACAGGC ATGCGCCACT ACCCCAGCTA ATTTTGTATT TTNAGTAGAG
ATGGGGTTTC TCCATGTTGG TCAGGCTGGT CTTGAACTCC TGACCTCAGG TGATCCGCCT GCCTCGGCCT CCCAAAGTGC
TGGGATTACA GGCATAAGCC ACTGCGCCCA GCCAGAAGAT GCATGATTTC TTAGGATCAT ATGCTGTTTG TAGCCATAAG
GTAAATCATG TCTCTTCCAA TCATGACTTT TGGGAACTCC CTGAATAATA AAAATGAGAG TTGAGAT

SEQ ID NO:775: (Length of Sequence = 401 Nucleotides)
GAATTTNTCT TTCTGCATCG TTCTGTCATA AAAAGGGGTA CTACTATAGA ATAGAATGCA GGCTTAGGAC CCCCGTAAGC
TCACTGTTCA ACCCAGCCCA GCAAACTGGT CAGTTATAAA TTTTNCTGCA GGTCCCTGAA ACAACAACAA AAAACTGGAT
GAGGTTTCCC TCCCATCTTG TTTTATGTCC TTGGGAGCTT GACCTTATAA CCATACGGCG GTACTTTTNC TTGGTCTCTG
CCATCCAGGG AACCAGAATT TGGGGGGTTA TGTCATAGTT AGCTCTAAAA ATTATCTTGA GCAGTTAAAA GCCTTTGCAA
GCTTAAAATT GACTGCTGTA GGNTCCTTCT GGGGAAGGAG CAATGGGAAA CCTTNCCAAA GCTTATAGCT CANCCAGCTG
A

SEQ ID NO:776: (Length of Sequence = 345 Nucleotides)

235

AACACTGGGT AAGCACTTTG TATGTNCTGG GCACTCTGCT AGAGATAATG TGTCTGGAAT TGGTGGGTTC TTGGTCTCAC
TGACTTCAAG AATGAAGCCG TGGACCCTCG CAGTGAGTGT NACAGCTCTT AAGGTGGCGC GTCTGGAGTC TGTCCCTTCT
NATGTTCAGA TGTGTTCANA GTTTCTNCCT TCTGGTGGGT TCGTGGGTCT CGCTGGCTCA GGNGTGAAGC TGCAGACCTT
TNCGGTGAGT GTNACAGCTC TTAAGGCNGC GCGTCTGGAG TTGTTCGTNC CTCCCGGTGG GCTCGTGGTC TCGCTGGGCT
CAGGAGTGAA GCTGCAGATC TTCGC

SEQ ID NO:777: (Length of Sequence = 229 Nucleotides)
ATTGGGGGAA CCCAAGCCCA NTAATGCTAT GGCTGTTGCA GACTTGTAGA GGTACTGCCT TCATGGTCTT NGGTAAGATC
TGGGAGAATT CCCTGGATTA CCAGGCAGAA ACTCTNATTC TCTTGCCTTA CTTCCCCCCA AACAAATNAG TCTCTCTCTC
TCTCTGTCCT GAGCTGCCTA GAGCTGAGGG AGGGGGTGAC ACAAGCACAG CTATGTCACC AGGAAGCCA

SEQ ID NO:778: (Length of Sequence = 361 Nucleotides)
CAGAAACTCA GGAATAAAGC CATTAACTTT CAAAGAATAT GTTGTGTTGT TCGATATTTT CCATTCCTAA TCCACATCCA
CGTTGGTCAA GTAGAGCTTC CTACTCAGAA GCACAGCAGT TGCCATGGTG TTCTCTTCCA TCTGAAAGCA GCAATTTTCC
GCAGCGTCCA TTTACAGAAT GTGCCATATT TACTCAGATT CTAATGTATA TTAAATATGC TTTGGAAACT TAACAAGAAA
CGTGCAAGCN CTCAGTAAAG AAAAGTTGTA GAAAACAAAA ACTGAACAGC AGGCTTCTAG TTTCTCCTCT CCCAAAATGG
CCTTAGTGGG ATTCAAAAAT GGGAAGTGTG AATAAAACTG C

SEQ ID NO:779: (Length of Sequence = 392 Nucleotides)
CCTAAGATGC CTGGCACAAT CAAAGACCTT TGGTGGCTTC CAGCATTTAT AAGGCAGAGT CCAAACACAC ACTTAAGAAT
GACTTACTCC TCTGGCGGAC CCCACCATTC CCTCACCCCG CTTTGGCTCT GTCCTCTCGT GGAGCTGCCC CTGCCCCTAA
ACACTGCCTC CTCTCTACCA ACCGGACCA TATTTCCCCT CCTCCCCTCA CCAGGTCCAG CAGTACCCAC CACGTTTGTG
GACATCTCCC CAAGGAGCTC TCACGTATCA GAAGCAAGGA GTTAGCCTTC AGCCCCACCT CTTGTGCTTA GGTCTACAGT
GAGTNTCCAG TGATGCTTCC TACCGACTGC TTGGGGGTGC ACAAGAGTNA GGCCAGCAAG ATNCCAGCGG AA

SEQ ID NO:780: (Length of Sequence = 453 Nucleotides)
CTCTCTATTT TCTCTTTTCC TTTTGACCTA CCATAGGAGA CAGATTGCTC ATCTCCAAAT TTCTCTGCTG TCTGCGGANT
GCCTGGTTTT CAACCTTGGT TAGGGTTTGG CTTAGGAATA GCATAATATC CCTTTGTGAG AGGTTAAACA CTTGAGTTAA
ATTTTGGAGG CCAGGTGTGG TGGCTCATGC CTGTAATCCC AGCACTTTGG GGGGCCAAGG TGGGCAGATC ACGAGGTCAG
GAGATCAAGA CCATCCTTGC CAATATGGTG AAAAACCGTC TTTACTAAGA ATACAATAAT TAGCTGGATG TGGTGGCACA
CGCCTGTGGG TCCCAGCTAC TTGGGAGGCT GAGGCGGGAG AATCGCTTGA GNCTGGGGAA GTGGAGGTTG CAGTNAGGGT
GAGATCGCGC CACTGCACTN CAGCCTGGGN TGAGAGAGCA AGACTTCCGT TTC

SEQ ID NO:781: (Length of Sequence = 306 Nucleotides)
AAGCTACTCG GGAGGCTGAG GTGGGAGAAT CGCTTGAACC TGGGAGACGG AGGTTGCAGA GAGCCGAGAT TGCGCCATCA
CACTCCAGCC TGGGCGACAG AGTGAAACTC CATCTCAAAA AAAAAAAAA AGAACCACCA CTNTAACTGA GAAATAGATG
NTCCCATTAA CAGTTTAGAA AATGTATATA ACTCTAATCC ACAGAGGTTT ATACTTACAA GCAACTCATG GTTTCCCTTT
TAAGGCCCAC ATGTGGAAAA TTAATCTGAA CAGTTAGTGC AAGGAGGAGT CATACCTCAG TGGAAA

SEQ ID NO:782: (Length of Sequence = 443 Nucleotides)
GTCTCGGGCT CCTGACCTCA GGTGATCTGC CTGCCTCGGC CTCCCAAAGT GCTGGGACTA CAGGCATGAG CCACTGCACC
TGGCCTAATT CTACATTTTN ATCTACAGCA GACCTTTTAT CATAAAAGAG TTTCTATAAA ACATTTCTCA AAAGAAAATA

TGTATTGACA TTCTATTTTC TTTCTCCTCC AGATACTATT TTTNGGATTT NAAACATACA CAATACTTAG GAGACTTGTT
TTACTCAGAG TGGAAAATTT TNCCAGGGAC AAAGTCAACA CAANGAAACA AACAACAAAA AATAGCCAGA AAGAGAACAG
TTAAGTGCAG CTCGGTGAGT CCCGGCAGTT CCTTCCCGGC ACTGGCTCGT CCCTGGGGTT CTCAAGGTTC CATGCGGCCA
CAGCGTCCGT CCACCTGTTC CACGNGAGCC ACATGCTGGA ATT

SEQ ID NO:783: (Length of Sequence = 350 Nucleotides)
CATTCAGGCC GGGCACAGTG ACTCATGCTT GTAATCCCAG CATGNTTGNA GACATAGCAG TAGGGACTAT CGACAAAGAA
ACACACAGAG GGAAAAAGAA TTCCACATTT GGGAGGCTGA CGCATGAGGT TCACCTGAGG TCAGAAGTTC AAGACAAGCC
TGGGTAACAT GGTAAAACCC CGTCTCCACT AAAAATACAA AANTTAGCTG GGCATGGTGG CCTGGGGCTG CAGTCTCGAC
TACTTGGGAG GCTGAGGCAT GAGAACCTCT TGAACCCGGG AGGTGGAGGT TGCAGTGAGC AGAGGTCATG CTACTCTCAA
GCCTGGGGCA ACAGAGCGAG ACCCTGTCTC

SEQ ID NO:784: (Length of Sequence = 265 Nucleotides)
ATAACTGAAA AATGGAAGAA AATATTTGCA AATTACACAT GTGAAAAGCA GTTAATATCA AAAATATATA AGANACTCAA
AGGACTATAC AACAAAAAAC AAATAACCAT GAAAAATAAG CAAAAGATAT ATATAANTNA TTTNCAAAGA AAGACATACA
TATAGCTTGG CAGATAGATG AATATGGCTC AAAGTCAATT ATCATCANGG AAAGGCAAAC CAAAACAACT CTAAGATATA
AACTCACTCC TGTTAAANTG TTTAA

SEQ ID NO:785: (Length of Sequence = 363 Nucleotides)
GTAAAGNTTG AGAAATCGGA TGGTTGCTGT GTCTGTGTAG AAAGAAGTAG ACATGGGAGA CTTTTCATTT TGTNCTGTAC
TAAGAAAAAT TCTTCTGCCT TGGGATCCTG TTGATCTATG ACCTTACCCC CAATCCTGTG CTCTCTGAAA CATGTGCTGT
GTCCACTCAG GGTTAAATGG AAAAAAAAAA AGAAAAATGA AACCAGGAGT TGGCAATTAC TTTTTTTTTT TTTAAAGACA
GAGTCTTGCT CTGTCACCCA GGCTGAAGTG CAGTGGTGAG ATCTTGGCTC ACTGCAACCT CCACCTCCCA AGCTCAAGTG
AATTCTCCAT GCCTCAGNCT TTCAGAGTNA CTGGGGATTA NAA

SEQ ID NO:786: (Length of Sequence = 291 Nucleotides)
AACAACAATC AGCCACAATG TGCTTTTAAG GATTTAACTG ATAGTAAAGA TAAATGTGAG TNTTAAGAAT GGGATTTTTA
GACTAGGCTG ACACAAGGGA TCTTCTTTNA ATAAGGNTCT TGAGCATTTG TNTTTTTGGA GCTCATCCTT AAGGGCTGGA
CAGGAAGAAT CCTGTGTTAT GTGTGCATGT TGAGCAATGC AAAAAACACT CTGCCAAATC CTNGATACCA CATGGTCTNG
AGAAATGCAT GAGTGATTTA ACGCACGGNT GGGTGTAGTC ATTATGTTCC T

SEQ ID NO:787: (Length of Sequence = 256 Nucleotides)
TATTTCTGTA TAATTTTNAT TATGACCATA AAAATAACAA TGTAGTCAAT AACAATTTAA TTGTACATTT TAAAATAATT
AAAGTATATA ATTACACTGN TTGTAATAAA AAGTATAAAT GTTAGAGGTG ATGGATACCT TATTTACCCT AATGTAATTA
CTACACATTG TAGGCCTGAA TGAAAATATG CCATATAAGG CATAAATATA TACACATACT ATATACCCAC AAATACCAAT
AATAAATTTC AATAAG

SEQ ID NO:788: (Length of Sequence = 322 Nucleotides)
GGTCCAATGA AGCTTCAACT CGTTTTCAGC TCAAAGCAGA CGGCAAATCA GCAAAAAGCA AAAATAATGT ATCTTACTGC
ATTACAGACA AAAAAAAAAA AAAAAACAGA GTGAAACTAG ANCTATTTTC AATAGTAGTT TTCTGACAGC TATATAANCA
AATATAGANG ACATTATGGA ATTAGTGATG TGAACGAGAA CTTGTCCATG TATCCTGCCT GCCAGCAAAG GTAGAGATGG

CTGINATATT TGTAATGGTT TACTATGAAG GCTGTTCCAT AACCTNCAAT ATCCACTGNT CTTGGGTGGT ATACCAAGGA
TA

SEQ ID NO:789:   (Length of Sequence = 357 Nucleotides)

TCAATGTGGC ATTTGTTTTT NTTAGAAAAC CCCTTAGTAA GCACTTCTCT AACCCAGAAT AGACACTGGG TATCCTCCAA
GAGTCCCATA GCTTTCATTT CATCTTCCAC CCTCTTCTGA GAGGGGGAGG CAGGGGATAG GGGTGGTGTC AGGCAGTCTC
CAAAATGCCC CTCCTAGACC CCTGAGAGAA TTCATGTTGC CAGCAATAAA CCAACAGCAC CTCAGTGGGG CATCANAGGG
CCCTCTAGGC TCAAGGCTAT TGCCAAAGGG CATTCCTGTT TTATGAGCTT CACGATGGGA ACCAAGGNAG GCTCTCGCAA
GACTTCCTAG GGGCTTGGTC CTTCAACTTA TGGGCCT

SEQ ID NO:790:   (Length of Sequence = 366 Nucleotides)

TGGCCAGGCT GGTCTTGAAC TCCTGACCTC ATGATACACC CGCCTTGGCC TCCCAAAGTG CTGGGAATAC AGGCGTGAGC
ACTGCACCCA GCCTTGTGTG ATCTTTTAAA GTACAGTTCC CATAGATTTA CATTAAGAAT AAAAAAGTCA TGACATCTTG
CTTTTATATG GCAGTTTACT CAAGCTTTTT AAAGAAAGAG CATTCATCTT GCTTTTACGT GGTTTTAGAA TGTTGAAAAC
CTTTTGNTAA ATCTGAGTAA TTTACTGCAT TTNCCATTAA TTCAGCTTAG TTAGACTGCT GGNTCCAGTG CTTTGTTTTG
CTGTCACATA TACCCTAATA TGCTTTTTAA CATATGNCCA AATTCC

SEQ ID NO:791:   (Length of Sequence = 317 Nucleotides)

AACAACTCCA ACCATAATGG AGAAGGAAAT GGCCAGAGTG GCCACTCTGC AGCGGGCCCT GGTTTTACGA GCAGAACTGA
GCCTAGCAAA TCTCCTGGAA GTCTGCGCTA TAGTTACAAA GATAGTTTCG GGTCAGCCGT GCCACGAAAT GTCAGTGGCT
TTCCTCAGTA TCCTACAGGG CAAGAAAAGG GAGATTTCAC TGGCCATGGG GAACGAAAGG GTAGAAATGT AAAATTCCCA
AGCCTCCTGC AGGAAGTGCT TCAGGGNTAC CACCACCACC CTNACAAGGN GATATTCTAG GGGGTACTCA AGAGCAT

SEQ ID NO:792:   (Length of Sequence = 258 Nucleotides)

GATCAATATA TCCAGGAATT TGTGAAAAGA TCCTAAACTT TTCAAACATG TCACAGGTAG TACTTGAAGT ATGCTTGGTA
AAATGTACCG GTTAAAGCAG TATGTTTCTC AGATAGCCTG AGATTTTATT TAACAATTAT GTATCTAAGT CTACTAATAC
ATTTGAGCAA AAGAGTGTTG GGTNCATAAA TAAGANGTCA GTATTTCACT TAGATTATTT CAGAAACTTG TAAGTNCCTG
TAAATAGCTA CTCTGAAA

SEQ ID NO:793:   (Length of Sequence = 282 Nucleotides)

GGAATGACAT GGTCATTCTN ACTTAAAAGA AACATTTTAG GTTCACACTT GCCAAGTTAG GAAGAAAACC AACCTTAGAT
CCCTTCCCCC CCACCAATAC TCCTTTCCCC AAACACCGTC CCCACCCGNC TCTATGTTTA ATTGAATTTT TATTTGTGAT
ATATAGAAAA CCTAACCCAT GGCTGTNATG CTGAGTGTCA TTTGGCTTCA AGCTCGAACC AGGGNACAGC TTGGCCTGGA
ACCCTGAGAC AAGATGCTGG CCTCANAAGG TGGGGGCTCA CG

SEQ ID NO:794:   (Length of Sequence = 330 Nucleotides)

GTTGAGGCTG CAGGGAGCCA TGTTCACCCC ACTGCACTAC AGCCAGGGTG ACAACAAGAA CCTTTCTCGG CGTGAACCCA
GGGGGCGGAG TTGCAGTGAG CCAAGATCGT GCCACTGCAC TCCACCAGCC TGGGTGACAG AGCAAGACTC CGTCTCAAAA
AAAAGTTTAC TACTCGGCTT TAATTATTTC GTTTCGGTTT TGGGTGAAAT NATTTTATTA CTGACTGGTT CCTTAGTTGT
ACAGAAGCCT ATTATCTTTA GAGAGACTCT TCATGGTAAT TAACTCAGAT TCTTATTTTG CCTGGGTGAA AGGANGGCAA
GTGGATCTAA

SEQ ID NO:795:   (Length of Sequence = 332 Nucleotides)
GGAAATAAAG GTGACATGAA CTAACTATTC AATCATGAAT GGTAGAAAAA AATGAAAATG TAACGAGATG GGATCCGGGT
CAAAGTCAGG GGAGGTATAG TTGAAGATAT TGAAGGAGTC ATTATGATAC CAAAGAAAAT GGAAAGANGT GGTATCCAGA
TAGGTTATCC TTGGAGAGTA TCCAGGGATG TCTCTTTNCC TAAGACCTTA GAGAAGGAAA GGATGGCTGA TAATATAGGG
AAAAGTTGAC ATGGAAGGAT TAAATAATTT TTTNAGAATT CACGTAAGGN ATGATAATCT GAATTTCCAG GGCTAGGCTC
AGAAGCAGAA AT

SEQ ID NO:796:   (Length of Sequence = 305 Nucleotides)
CCCAAGGGGA CAGCCTGANC TCCCTGCTCA TAGTAGTGGC CAAATAATTT GGTGGACTGT GCCAACGCTA CTCCTGGGTT
TAATACCCAT CTCTAGGCTT AAAGATGAGA GAACCTGGGA CTGTTGAGCA TGTTTAATAC TTTCCTTGAT TTTTTNCTTC
CTGTTTATGT GGGAAGTTGA TTTAAATGAC TGATAATGTG TATGAAAGCA CTGTAAAACA TAAGAGAAAA ACCAATTAGT
GTATTGGCAA TCATGCAGTT AACATTTGAA AGTGCAGTGT AAATTGTGAA GCATTATGTA AATCA

SEQ ID NO:797:   (Length of Sequence = 337 Nucleotides)
GGCTGCATTA TGACAAGAAG TCAAGCTTCA TGACAGTTAG TATGGGCTGG AGTCTGCAAA GTCTGAACTG TATTCTCATA
GAATGATTCC AGGTTTCAGG GTGTTCCACC TGCCAGAACC CAAAACTACA ACTATGGGCG ACACAAGGGA AGTTTTAGAA
ATCTCCCTCT ACACGCATTT CTGGTTTTCT ATTATTCCTC CATGGCAGCT GACAGATCTG GAAGTGNAAA TAGGGGATTC
TCAAAATCAA AGCCANGAAG ACACCTTGTG TGACACCAAT GGAGTCTCAG AGGGTGGGAA TAGAAGTGAC TTNGNCCCAG
GCATTTGCTG GGAACTT

SEQ ID NO:798:   (Length of Sequence = 341 Nucleotides)
GAACCCTGGA AGGTCTAGGC TACAGTGAGC CATGTTTGCA CCACTGCACC CCAGCCTGGG TGACAGAGTG AGACACTGTC
TCCAAAAATA ATAGTGATAA TAATAATAGT CATTTATTTT AAGTCTACAT GCTGAGATGC CAGAACAAGT AAAATTGGAT
TATAGATTCA AGCAGTATGT AGGTATACTT TCATAAACTG AATACTGATG TAATTTTGGA TGATTAAAAA CAGNCTTTTA
GTAGGTGTTC AAAAATCTGG NTAATTCCTT TCATGNCATT CAAACATTTA GGTGGCCTGT CTTTGTTTTT TTAGGNTATA
ACTTGCAAAC ATTCANTTGT T

SEQ ID NO:799:   (Length of Sequence = 322 Nucleotides)
TTTTTGAGTA ATGAATTCAT TTAATATAAA CTTTAGTATA GCAGAATACT ACAGGTTACC CACATTTAAC CCTAAAAACA
AACAAATGAC AGGCACTTCA GTGAAATAAC AAGCCCATGT TCAAATATAA AATGCTAAAA GTGAGAAAGA AATTATGAAA
ATATATACCT TTAATTTGCA GACATATAAA CACTTTTGGT ACAGTACAGA TGCATGATGC CAAAAAGTAA AATGNTCCAG
TTTAAGCTAA CACATTCCTT GTTTATACAG NTTATTTTNC TATAGCTCTC ATATAANANA AATATTNCCA GCTCACACAA
TG

SEQ ID NO:800:   (Length of Sequence = 405 Nucleotides)
ATCAAGAGTT GTGTGGTCTA CCGACTGAGC CTGCCAGATA ACCCTGTAGT ACAATTTTTN CAGCATAGTG GAAAAGAAAG
CCATGGNTCT GGGCAGGTCA GGGTTTGANC GCTAGTGCNT TGTATTAATG ATCATGATGA TAGCTAGTAG ACAGGGCTTA
CCAGATACTA GGTGCTCTCT TAACTGCTTT ACATATGTNA GTTAACTCAT TTAATCTTCA TGACATCACC CCTGAGATAT
GGGTAATATT ATAATGCACA TTTTATAGGT GATGAGAGTG AAGCACTTGC ACAGATTACT CCAGCTTAGT TCATAGCAGA
GCTGGGACTT TTAAATCAAG GCACTAGATG GTTCCAGAGC TTTGTACTAC TCTTCCTGGG TCTTTCACAG TCTGAGCTGG
TCCGG

239

SEQ ID NO:801: (Length of Sequence = 408 Nucleotides)
CTGCGTTCCA TGTAGCGTCT TCCACAGTNC TCTGTTATAA GATGGTTTGT TACATTGCTG CAGATATTTC TGCATGTCTC
TTGAGTTTCT CAAGACCAGG GTTGTATTTT TCCATGTCTG TCGATGAAAC AGTACATGAC AAAAGAAGGT ACTTAATACA
TGTTTGATAA ATTAATTACT GTTTGGTAAA TTAATTATTG AAGGAAGACC CAGACTGGTT CTGATAAATC ATTGATTACA
TTTTACAAAT TTGGATAAAT TAGGGGAGCC TTGAGAAGTT AGAGCTCTAG GGAAGGTTCC AGGGAACGTT TGAAGGATGT
GAAATATGGT TTTCAAAATT CATAGTTTAT TGCAGGATTC TGGNATACTT TCCCAAGTGA GGGGNAAGAT GAGGAAGANG
ATGGGCTT

SEQ ID NO:802: (Length of Sequence = 343 Nucleotides)
ATGAGACTTA CTCACTATCA TAAGAATAGC TTGGGAAAGA CCCACCCCCA TGATTCANCT GGGTCCCACC CACAACACAT
CAGAATTATG GGAGCTACAA TTTAAGATGA GATTTGGCTG TGGACACAGC CAGACCATAT TAGACTCATA ATTTGNCTTC
TGCACAGTAA GANCTGGGCT GGGATACCTC ATAGATCATA AACAAATCCG CACCCATGAA AAGATTTAGA GAGTCACACA
GGAAAGTCAA CAGAAGNCAG AGAGATGTGG GTCCTGGNCT TGCATGTCAT TAAGTGGTGG GNTCCTTCAG CTTTCACATN
TTCAGGCAGT GGGGTCAAGA AAC

SEQ ID NO:803: (Length of Sequence = 182 Nucleotides)
GAATGGCCTT NTCTAACGGC ATGTATGACT TGCATGANCT CTCTAAAGCT GAACTGGCCT CACCTCANCC TGTCTTGCTG
GCAAATGCGG CCTTCAGTGG GAAAGTAAAT GGCAGCTGCT GTNATTACCT GGTCGNTGAA GAAAGACAGA TGGCAAAATT
NATGCCTGTT GGGGATGACA GC

SEQ ID NO:804: (Length of Sequence = 312 Nucleotides)
TTTATTTACT GCCGTTGTAA ATNATCACAA AACATATTCA TTGTCAAGTG AATGCACAGG CTTTCAAAGG TGATTGTATT
CTGCAAGGTG GGGAATAGCC AACTACCTTC TAAGGTGAAT GTNCAGCCTG CCATTTCCAA CCCCAAAACT CCTCTAGATT
CTCAACAGGG CAGCTTCTGC TTCATGCCTC TNTTCGGAAA GGTCAGCCCT GTGTAGAAGG CTTAATACCA ACATGCAGAT
CCACCTGAGA ATCACTGGAA TGCTCTGGAC CCAGCTGGAA TGCTTCCGGA ACCCAGTCAG GCTTNCGGAA AT

SEQ ID NO:805: (Length of Sequence = 411 Nucleotides)
CATGCAAAAT TCAGAATATA AAAAANTGCA GGGCCTGGTT GCCCACATAC ATTCCTCAGG TTAAGGTGGA TTTAAAGATG
CCCAACAGAA CCCAATGAAT CAGAAGCTAA AAGGGACACT TCAGTGATCA GCAGACGCAT TCTCTCACGT AACAAATGGA
GGGAAAGTGA GCACACATTA ACTAGCGAAG TCACAAGGCT AGATTAGGGG TGTACAGAAA TCTAATTCCT GGTGCTATTT
GCAACTACAT ATATTTAAAA TACANGGAGA TAAATACCCA GAACACATTA AGCCTACTGA TTTAAACAGA NCATTTCAAG
ACTGCTACAC AGAAAGGGAA GGGAAGCTGT TAACCCAGCA CAGCAGCACA CCTCACATAT TTCCGTCTCA GAGGTTAAAT
GGGAAGGAAG G

SEQ ID NO:806: (Length of Sequence = 287 Nucleotides)
GCATTNAGT GCTGATACAG ATACAGTGAG TTCCTGCCCT TTCCTCTCCT NTATATTGAA GGGATTATAA ATGAAGCTCT
TTAAACATTC TGAGATCTNT AAGTTGATTT CTACATGAAC TCCAAGTGGT GTTAATGACA TTTTCAGAAA AGATGCTTTA
CTTAGCTGAC AAGAAAAAGT ACTCTGTAAG CCTTTATTTG TATGTGATAA AACAGAGTTG ATAAAATAAT CTACTATTAA
CTTATCAATG CAGTCTTACA GAATCCACCT ANTTACAAAG TAGATAA

SEQ ID NO:807: (Length of Sequence = 369 Nucleotides)

GGCAGATATA ACCTTTTCTC AAACATCTCT AATTGTCTGC ATACCCCACT AATATTGGCT ACATAATACA TTTATTTTTG
TCATTTGGGA CTAAGTGCCT TACTTAGTTT TGTNCAGTGT ATTCATTAAT TGAAGAAATA CTTATTCAGG ATTTCTATTA
CTTAGTTTTG CTCAATATAT TCACTAATTG AAGAAATATT TATNCAGGAC TTCCATTATA TGAGCACTGG CCTTTGTGGT
ACAAAGATAC AACATGAATC TGAAACTCAA TTTAATCTAG AAAGATTTAT TAATATAANC TCATCAGAAA AGCAAGNCAT
CTACTGTGAT AGCTACAGTA TTGGTTAGAA ATGGAAAGAG AGAGCAGAT

SEQ ID NO:808: (Length of Sequence = 361 Nucleotides)
CAGGCTTTGT ACCAGCCGCC ATACTCTCCA AAAGATGTCC CATCCTTTTN CTTTCCTTTG CATTCTTCTC TTTCTTCAGC
ATGCATCCAG ATGGGTTTAT TTTCATCATC TACAGAACCA AACTCCCTTT CATGTGCACG AGTGAGAATC TCTTTGTACA
GTGTTTCTGC TTGCTTGAAC TTTCCTTGTT TCAAATAGCA GGATGCCAGG TTATTTTNCG TCTTAGCCAC GTTGGGGTCA
TCAGGTCCCA GTTTTGTCTG GTAGATCTCG AGGGCTCTTT GATAATAATA TTCTACTTCT TCATACTTGC CCTGGGTTCT
GGCACAGTAA AGGCCAAGTT ATTTAACTGC TTGGCAACAT C

SEQ ID NO:809: (Length of Sequence = 353 Nucleotides)
CTAATTTATC TTCATGTCCA GTGAGCAGTG TTGCGTTTTT CCTTGTAGCA TTTGGAAATG ATTTACTGGA ATTACAAAAC
CTATTTTCCC TTTAAATTTC AGCTTTGGCT CTGGCTGCTT TTTAGAATAA TGCAAGATAA AAATCACACC TGAGGGCTGA
AAACGGAGAG GGAATGGGAG ACTTGATATT TAAGCAGCTT GAATGGTTTT CCNTTNCTTT ATTTTTAAAG AAATGCACTT
GCCTATGATA CTGTCTCTCC AGTGAAATGA TTACTCCTCC ATTACTCTAT TGATACANTA TTGTGCATGC TAGTGTTGTA
TTTCTATACA GTAGCTTGAA AATTGATTAA CCT

SEQ ID NO:810: (Length of Sequence = 296 Nucleotides)
GAGGTCAATG CTTCCCAGGC TCGAGTTGAT GCCCACAGGT GTATTGTACG AGCATTGAAA GATCCAAATG CATTTCTTTT
TGACCACCTT CTTACTTTAA AACCAGTCAA GTTTTTGGAA GGCGAGCTTA TTCATGATCT TTTAACCATT TTTGTGAGTN
CTAAATTGGC ATCATATGTC AAGTTTTATC AGAATAATAA AGACTTCATT GATTCACTTG GCCTGTTACA TGAACAGAAT
ATGNCAAAAA TGAGACTACT TACTTTNATG GGGAATGGCA GTAGAAAATA AGGAAA

SEQ ID NO:811: (Length of Sequence = 493 Nucleotides)
CCAGGAGCTT CTCCTCTCTT GCCAGGGCTA TGAGCAGAAA CCTCAAATAA ACCCTGGGCA GAGAAAACCA ACTTAATGAA
GAGGACGTTG CTGTTTCCAC TGGCTTCTAA TTTTGCAGAT GCAATGAGCA CTTACGGCTT TTGCAGTGGT TCAGGAAAAG
GCAAGAAGAA GCAGATTGTC ATGTTCCAAA GCCCTCTGAT GGCTGCATGG AGCCAGCGGT GCTGTGACTT TTTTTAATAG
CTTCAGTACC TTTNATACGT ATGTCCTTAT TTACTCTTTA TCTATGCTCT CTTCCTCCCA TCAGCCTGGG AGCTCCCTGG
GGCAGGTCTG TTTCTCCCCT CCAGTCCGGA NTTCGCAGGA GCTGTGCCTC CCCCATCACA CTTGGAGGCT GTCTNAAGGC
AGGGGCTGTG GTCTCTGCCA TTAGACTNGA AGCTCCCCAA GGTTAAAGGT CATATCCTCA AAAAAGCTTA GAATAGCTTA
GGAACCTAGG GGT

SEQ ID NO:812: (Length of Sequence = 337 Nucleotides)
AAATTCACAT ACTTGTAAGT NATGCAAGCA AATTCTCACA TAATTATTTT TAAATGCTAG ATAGTTGGTA TAATTNCAAT
CATTTTAAAT ATGTTAAGAC TTGTTTTGTA CCCTAACATG AGGTCTATNC TGAAGAATGT NCCATGTGCA CTTGAGAAGA
ATGACTGGAG TGTNCTTTAT ATGTATGTNA GGTCCAATTA GCTTATAGAA TTGCNCTAGT CCTCTATTTC CTTATTCANC
TTTTGTTTGG TTGTTGTNCT ATCCATTATT AAAAGTGGGG TATTGAAGTC TCCTACTATT ATTGTGCTAT CATCCTCAGC
AAACTAACAC AGGANCA

SEQ ID NO:813: (Length of Sequence = 310 Nucleotides)
AGGTGGCCTC AGNNCAGCCA AGCTGACCTT GGCACTTGGC TGGCTTCTNT AAGGCANTAG AGTGCCCACA CATAAGCNCA
CCACCTNTCC CCACCTCCTC CCTTCTCTCC CATGCCACCC CACTTGCTTC CAAGGGCTTG GTTTCCAAAG TNACATCCAG
GGTGTAAGAG GTTGGGGAAA ACGTCCTGCA AGNTGGCTCA GGGATCTNAT TCCATCAGAT GGTCTCATGA ATACTGTGGG
AGATTAAATC CATCTCAAAA TAGGCAACCA ATGCTATATT CTGAATNTNA GGTCTCTGGA CTGAGTCCCA

SEQ ID NO:814: (Length of Sequence = 361 Nucleotides)
GATTTGAGCC ATCAGAATTC AGCTTTTGTA GATAAAGAAT ATGAACTAAT TGACTATGGA TGGAATTATT GTATATAGTC
AGCTTGCTGA ATTATTGGTT AAGCACTACT AACTATATCT TGGTAAACTA TGGTGCAACT GAGCCACCCC CTAAAAGCAA
AAGACATTTA GCAGTTCACC ATATTTTGCA ATTAACCAAA TGAGAGCCTA TGAGANTGAA ATGNTTTCAG GTGGAGTTTG
ACAATACAAT TCATCCNTAA TATATAGGGN NAAATATTTC CTCAAAAATA ACATCTATGT GGTAGGNCCT TAAAAACGAT
GGATGNAATG CATGCAAAAT TCTCTGGTAC ACAGACACAT G

SEQ ID NO:815: (Length of Sequence = 301 Nucleotides)
GAATTNACT CTTGTTTCCC AGGCTGGAGT GCAATGGCAC GATCTTGGCT TACCGCAACC TCCGCCTGCT GGGTTCCAGC
GATTCTCCTG CCCCAGCCTC CTGAGTAGCT GGGACTACAG GCATGCGCCA CCACGGCCAG CCAATTTTTG CATTTTNAGT
ACAGACGGGG TTTCACCATG TTGGTCAGGC TGGCCTCGAA CTCCCGACCT CAGAGGATCC GCCCACCTTG GCCTNCCAAA
GTGCTGGGAC TACAGGTGTC AGCCACCACA ACCGGNCTAA TTAATACTTC TTGAAATTTC A

SEQ ID NO:816: (Length of Sequence = 310 Nucleotides)
ATCTTTAACA TATTAAAATA GACATGAGAA AAATGTGTCA TTTGATAAAA TGGGGGAAAT GTAATAAATG ATTACCAGAA
ATATAAAATT AAGCCGTATA TGCNCTTAAG TAAATCGAAT CTAGGCATCC TTAAAATGTA AAAAAGGNTG CAACAAGAGT
AAGGNGCCCA GAATGATGTA AATTACAGGA ATGGGGTGTA ATGTAACCTC TAGAGGAGGT GATGTTTAGA AGAAGCAAAG
NGAATGCAAT GANGAAGCAA ACTTGTTTTA GGCAAATNCT CCTGGGAGTG GGACCAGGCA GCCCCCTCTT

SEQ ID NO:817: (Length of Sequence = 225 Nucleotides)
TGGCATGCGC CTGTAGTCCC AGCTACTCAG GAGGCTGNGG CAGGAGAATN CCTTGAACCC AGGAGGCAGA GGTTGCAGTG
AGTCGAGATT GCACCACTGT ACTGGTCTCA GCCTAGGCAA CAGAGCGAGA TTCCATCTCA AAAAAAAAAA AAAGTTAAAA
NTAATATGCT AACTATGATA CAAACTGATA GCAATATTGT CTTTAGATTC AAAATAAAAA TAGGG

SEQ ID NO:818: (Length of Sequence = 225 Nucleotides)
TTAAAAAAAC CTGTAGTTTC ATTACCTTTT TGAATAATGN CATACAAAAA ATGTATTTGN TTTTTTGTGC TGTGAGAATT
GATGTTTGTA GATTAATAAT CATTTTGTTT AGAATTACAA AATAGTTTTT AAATATTGTC TGAGAAAAGC CAAAGTTAAT
GCAACCNAGT GGAAACTGTA AGACCNTTTG AGTATTGTTT GTTTTATTGG ATGCATTTGG ATTTT

SEQ ID NO:819: (Length of Sequence = 280 Nucleotides)
TTGACTAGCT TCCTACGTCA TTAAAAATTC TTTAAATAGT CTGTCTTAAT GGCTGCAAAT TTTGTCGTAA GTCTGGGCTA
AAATCTGATG AAATGTTTTA CCTGTGGTTA AGTAATTTAG CAACTCGTAT CTTTTTAAAA TATTACAACT GGGNATTCTA
GTACGTCACA AACATTTGTN ATATCATTTA TTTTGTGCCA TTGTCTGTGC TATGAAATAC AGTAGAATGA AAATTTACTT
CAAAGCATTC ATTNTCTTCC CCCAGGGNAT GATGGCAAAA

SEQ ID NO:820: (Length of Sequence = 328 Nucleotides)

CCAGTTAATT TTGTAAAGTT TATAGNGATG GTTTCAGTTA GACCTGTGCT GTCAATACAC TAGCAATTCA CATGCACATT
TAANTTTAAA TCTAAGTTTA AATTTAAATT AAGTTAATAT TAAATAAGAT TTGAAATGCA ATTCTCAGTC CTACAAGCCA
TGCTTCAAGT GCTTCATATC CATGTGAGGT TAGTGGCTGC TATACTGGNT AGTGCAAAAA GAGAACATTA TTGTAATCAT
AGAAATTCTA TTGGTAAGTT TATGGGGTAG TACATGGACT AGAATGTAGT GAGGTAGTGA GCTGTGGATG CAGAGAAAGG
NCACTGGA

SEQ ID NO:821:   (Length of Sequence = 310 Nucleotides)
TCAGCATTGT TTTCTGTATG TNTTGAGATG ATTATTTGGT TTTCCTTTTT ATTGTGTTAA TTTGGTGAAT TGCATCANCT
TTAGTATCTT AAACCAACCT TGCCTCTCTA GGGTAAACCT TATGTGGTCA TAATATATAA NCCTTTAAAT ACATTATTGG
ATTNCTTTTT TTAATATATT GCTGAGGATT TTTCATGACT ATAATCATAA GAGATATTGG CATATGATTT CCTATACTTG
TAATGNCTTT GTTAGAAGGA GTTTATATTA GGNTTTATNC TGGCCTCATA AAATGGGTTG AGAAATGTCC

SEQ ID NO:822:   (Length of Sequence = 372 Nucleotides)
GCCAGATTGT NTTCCTTGCG AGCCCCTGAC CCCGGCTACT CTTCACCAGA CACGGCCCGG CTTTGGCCCA CAACACAGCC
GTCCCACCCC TGGTTCCTTC ACCTTAGCAG TAGCAGTAGC TCTGGGTGGA GTTGCCAGAG GAGCTGACAG GCCCTCTGCC
ACTGCTGCCA CCCCCAGGGC TAGGGAGGGA ACAAAGAGCC TGCTTGCTGT GCTTGCACAT CCAGCATGCC ACAGCTGCAC
TACGGNGAGG AGGTCAGACA GTCCCCCCAA CAAGNCCCCG ATCCCTCTNC TCTCCACCAG GGAGGGCCCT GGGCTTTGCG
CCCACAGNAC AAAACGTTCC ANCCCGGGCT GATCATTCTG GGTTGGCAGC GG

SEQ ID NO:823:   (Length of Sequence = 288 Nucleotides)
AGCTGGCATC CCTGGGGAAA ACCAACGAAC AGTCTCCTCA CAGCCAAATT CACCACAGTA CTCCAATCCG NAACCAAGTG
CCCGCATTAC AGCCCATCAT GAGCCCTGGG CTNCTTTCTC CCCAGCTTAG TCCACAACTT GTAAGGCAAC AAATAGCCAT
GGCCCATCTG ATAAACCAAC AGATTGCCGT TAGCCGGCTC CTGGCTCACC AGNATCCTCA AGNCATCAAC CAGCAGTTCC
TGAACCATCC ACCCATCCCC AGNGCAGTTA ANCCAGNGCC AACCAACT

SEQ ID NO:824:   (Length of Sequence = 325 Nucleotides)
CTCCTGAGGT CAAAGCTGCA CGTGGGGAAG AGAAAGACAA GGAGACCAAG AATGCTGCCA ATGCCTCTNC ATCCAAGTCG
GCCAAGACCG CCACTGCAGG ACCAGGAACT ACCAAGACGN CCAAGTCATC TGCTGTGCCC CCAGGCCTCC CTGTGTATTT
GGACCTGTGC TACATTCCTA ACCACAGCAA TAGTAAGANT GTTGATGTGG AATTTTTCAA GAGAGTGCGG TCTTCCTACT
ACGTGGTGAG TGGGAATNAC CCTGCTGCTG AGGAGCCCAN CCGGGCTGTC CTGGGACGCT TTNTTTGGAA AGGAAAAGGC
TCAGT

SEQ ID NO:825:   (Length of Sequence = 318 Nucleotides)
AATCAGCCCT ACAGCGATTC CTCCACCCCC ATTAGCAAAT ACCGTAATAT ATGNCTCTAG TAATCATCCT CTCACAATTC
TNCTTTTCCT AATTTNNCCG TGAGTCAAGT TTCTTGACCA CAATGTTATG CTGAGGAAGA TCTAATGTTT CCATGGAGC
AGAAATTGTT AGTCCTCAAC TCCAAGGTCT GCCTTGTCAA GCCCTGTTTN CCGTGTCTTC ATAAACCTTG TCAGGCATTT
ATTTATTCAG CACATATCTA CTGTNCTCTG CACAAGAATT CATAAGGTTC TGATGAATTA TGTCCCTTCT GAGTGGGA

SEQ ID NO:826:   (Length of Sequence = 287 Nucleotides)
TACAGACTCA GGTTATAGGG TGTNATTTTC TAAGTCAATA TTCAGTTTCA CAGCCAGAAT CTGTGAAGAG AGAACAAACC
ATGAGAAAAC TAACANTTTT ATGGTGATTG AGAGGTTCCA AGTNCCTGGN GTTTTAAAAA AATCAGTTTT TAAAGATAAA

CAAACTAAAA CTAGTCCAAG CACTGAGACA GAGTATTAAA AGATGGTAGC ACACCCAAAG NGCACGGTGG GTCTTGAATA
GCTAACATGT TTCAAGTAGT GGAGGNAGAT GTGCTTAAAT AGTTACC

SEQ ID NO:827: (Length of Sequence = 426 Nucleotides)
TTTTTTTTGT TTTGGGACAG AGTCTCACTC TGTCACCCAC GCTGGAGTGC AGTGGCGTGA TCTCGGCTCA CTGCAAGCNC
TGCCTCCCGG GTTCATGCCA CTCTCCTGCC TCAGCCTCCA GAGTAGCTGG GACTACAGGG GCCCGCCACC ACGCCCGGCT
AATTTTTTTG TATTTTTAGT AGCGACAGGG TTTCACCGTG TCAGCCAGGA TGGTCTCGAT CTCCTGACCT CATGATCCAC
CTGCCTCGGC CTCCCAAAGT GTTGGACTAC AGGCATGAGC CACCGCGCCC GGCGGATGG TTAAAACATT TTAAAAATAA
ATATTTAGTG CTAAGACAGG ATATGGAGCA ACAGGAACTC CTATATGCTT GCTGGTGGGG AATGCAAAAT GGGTACAACC
ACTTTTGGGA CAAACAGTTT TAGTAA

SEQ ID NO:828: (Length of Sequence = 402 Nucleotides)
GGCTGCTTGC TCCACTCAAA CAGGTATCTG GGAGCCAGCA CTCTGGCAGT CCTTCTAAGC TCTAACTCTG GTTTTACTGT
TTTNNAGGTG AAACCTTTGT CCTGGGGAAT AGTCTGGCCC GCTCCTTGGA ACCACACTCA GACTCAATGG ACTCTGCCTC
AAATCCCACC AACCTTGTCA GCACCTCCCA AAGGCACCGG CCCTTGCTTT CATCCTGTGG CCTCCCACCA AGCACTGCCT
CAGCTGTGCG CAGGCTATGC TCCAGGGGTA AGCTTACCAG AGTCCTGGCC CTNCTTCCCT CCCTCACTCT TTCCTTCACT
TCCTTCCTGA GCTCTGGGAG GCCAGAGAGG ACCTAGCTCT GTTGCCCTCT GNCTNGTGGT GGGGACTAGG GACTGGACTT
AA

SEQ ID NO:829: (Length of Sequence = 417 Nucleotides)
ATCGGTTAGG AGTCGGCTTT ATGTGGGAAG AGAGAAAAAA ACTTGGTGAA ATGCTTTCTG GACTAATTGA AGAAAAATGT
AAACTACTTG AAAAATTTAG CCTTATTCCA AAAGAGTATG AAGGCTATGA AGTACAGTCA TCTTTAGAGG ATGCCAGCTT
TGAGAAGGCG GCANAGAAGC ACGAAGTTTG GAGGCAACCT GTGAAAAGCT GAACAGGTCC AATTCTGAAC TTGACGATGA
AATCCTCTGT CTAGAAAATAG AGTTAAANGA AGAGAAATCT AAACACTCTC AACAAGATGA ACTGATGGCA GATATTTCAA
AAAGGATACA ATCTCTAGAA GATGAGTCCA AANTNCCCTC AAATCCACAA ATAAGCTTGA AGNCCAAAAT CATTCTNGCA
AGGTTTCTTC CCAATGG

SEQ ID NO:830: (Length of Sequence = 404 Nucleotides)
GGTTTGAGAG TAGAACAGGA AGTTGTGAGT AGAGCCTTGA AGGAAAGAGA ACAGCAGGTG CATGGNTCCC CAGGCAGGAC
TCAAGGTAGC CACTCAGGCA TCAGAAAGAG TCAGGCGGCC ATGATGGCTC ACACCTGTAA TCCCAGCACT TTGGGAGTCT
GAGTCGGGTG GNTCACCTGA GGTCAGGAGT TCGAGACCAG CCTGACCAAC AGGGTGAAAT CCCTTCTCTA CTAAACTACA
AAAAATTAGCC AGGTGTGGTG GCACATGCCT GGGACAAATT TGGGATCAGT GTTCTCCAGT CTGAACATAG TCTTCTGTTA
CCTGGGAGAG AGTGGTCAGG TACTTCCAGC TTCAGGGCAG CCAAAAGCAT TGACAAAACG ACAGGTAGGA TGGGGGGAGT
AAGT

SEQ ID NO:831: (Length of Sequence = 330 Nucleotides)
AATTTCACAG GTTGTGTCTT CTGAAATCTG TACCTTCTTA CTCATAACAT TTAATGTAGC ATTTCTCAAC CTGACCAATC
TGCAGAAAAT ATATGTCATA TATTAATTGT GTATACATGA ATATATGCAT TTTCCTGGTA AAAAGTCATA GTTTTNCATA
GATGTCATGT AATCTTTTAA GAGATTCTCA AATAGGAACA TGATTCCACC CCAATAATGG TGAAAAATGA TCAATTTAGA
TGAAAGGGAC CTCAACAAGC CTCTTGAGAT ATGAANCATA AAGAGNAAAT ATAAGCCGCA ACTTTTTGAC ATGACAGATT
CATAATGGTT

SEQ ID NO:832: (Length of Sequence = 402 Nucleotides)
CTGTTTTCTC CTTTTGTTTT CCTATTTATN CTCCCAGTGC TAACTTGATA TCTNCTTGTG TGTACACGTG TGTNTGTGTG
CAAATATATT TCTAGGAACA AGAGCAAACA TTCTAGTAAC TATCATTCTC TGATGTGGAG AACTTGGGCA GAGATCTGAG
TTACAGCTTT GTGGATTTAT TCTCTCTGAT GAGAGATCGC CCCTTAGAAT GTCATGGTCC TAACCCCGTC ATGGATACCA
GGGGTGAATG GCAGGGTTCT TCTCCTGCCC AGGAGGAAGG GTATGGGGAG CCGGTGCATC TTGACTGTCA GGTCACCTGT
CTTACCACCT TTACAGCTAG GCTTTCTGAG GTGCCAGCGT CTCCTGGGAA TTCAAACTGT AGTTTAGAGG CAAGCTGGGT
GA

SEQ ID NO:833: (Length of Sequence = 398 Nucleotides)
AGCCTTTTTC CAGAGATCAG ACCTCTTTAG ACATCTGAGA NTTCATACAG GAGAAAAACC TTATGANTGC AGTGAATGTG
GAAAAGGCTT CTCCCAGAAC TCAGACCTCA GTATACATCA GAAAACTCAT ACCGGAGAGA AACACTATGA ATGCAATGAA
TGTGGGAAGG CTTTCACAAG AAAATCAGCA CTCAGGATGC ATCAGAGAAT CCACACGGGA GAGAAACCTT ATGTATGCNC
TGACTGTGGG AAGGCCTTCA TCCAGAAATC ACATTTCAAC ACACATCAGA GNNTTCATAC TGGAGAAAAG CCGTATGANT
GCAGTGACTG TGGGGAAATC CTTTCACTAN GGNAGTCACA ANCTTCCATG TGCATCAAAG GNTTNACANC CGGGGAGG

SEQ ID NO:834: (Length of Sequence = 394 Nucleotides)
CTTTTTTGTT AGTCTGTAAA ATCATTTCCA GGTAAAATCT AGAGCTTAAT CCATATGTNG TGCCATCTTT TGCTTTTCCA
CACCTCTNAT CCTAGGTAAG TNAGAGCTAA .GAGTATTTN CTGAGCTTCT ATTATGGGCC CAGCATATGT NATAATTCCT
TTTACACATA GGAATCTGAG GCTTAGAGAA GTTTACTGAT TTACCTAATG GCACACCATA AGTNCTGGGG CTAAGATTTA
AACTCAGGTC TCCTGACTTA ATTCAGATGG TCAGCTCGAT GGTAATCATA ATAATATTGT NGTTGTTGTT GTTGTTGTTA
TNTATCAACA ATAGTAGTAG CTAAGTCCAT TTCATGAAAC AGCTCATTGG ATAGTCCCAT NTGGATAATT CTGA

SEQ ID NO:835: (Length of Sequence = 422 Nucleotides)
GCTTTCTGCC TCTATAGATT TGACTATTCT GGACCTTTCA CATAAACGGA ATCATGTAAT ATATATAATA AGCAAAAGGT
AACAACAACC AAGCTGGCAA TTTGGTTGAT GAATGANTAA ACAAAATGTG CTGTATCCAT ACAGTGGAAA TATTGGTGCC
TACTACATGT GGATGGACCT TGGAAACATC ATGCTGAGTG AGAGAGAGCC TTGGTATTGT TTCATCTCCC CAGGAGATTC
CAAGGTGCAG CCAAGGTTGA GACCCACTGA CAAGCAATGG ATATGGTTGG GTGCAGATGA AATAAGGCAG CCAGGGGCAG
GAGGGATGTC TCATTGAAGA TGACTGTTTT GTGGGATGCC TAGCAGGGGT GGGGGGATGA GGTATTGATA ACCAGCAACC
CCAATCTTCA ACACAGCGTG GA

SEQ ID NO:836: (Length of Sequence = 408 Nucleotides)
CTCAAAAGAG TTGGCATCTC AGAAGGGAAG TGTAAGTNAG ACAATTGTCA TTGATGATGA AGAGGACATG GAAACAAATC
AAGGGCAAGA GAAAAATTCC TCCAATTTTA TTGAACGAAG ACCTCCTGAG ACTAAAAACA GAACCAATGA TGTGGATTTC
TCCACTTCCA GTTTTTCAAG AAGTAAGGTA AATGCAGGAA TGGGTAATAG TGGTATCACC ACAGAACCAG ACTCTGAAAT
TCAGATTGCT AATGTTACAA CTTTAGAAAC AGGTGTAAGC TCTGTGAATG ATGGCCAATT AGAAAATACT GACGGGCGAG
ATATGAACTT AATGATTACA CATGTAAACA TCACTGCAGA NTACCCACTT GGGAGGATTG TCTCTAACCG GGACTGCAGT
CCAAGTAA

SEQ ID NO:837: (Length of Sequence = 347 Nucleotides)
TGGCTCTGTT GCCCAGGCTG GAGTGCAGTG GCACGATCTC AGCTCACTGC AACCTYTGCC TCCTGGGTTC TAGCGATTTG
CCTGCCTCAN TCTCTCAAGT AGCTGGGATT ACAGGCATGC ACCACCACTC CTGGCTAATT TTTGTATTTT NAGTAGAGGC
GGGGTTTTGC CATCTTGCCT AAGCTGGTCT CGAACTCCTG GCATCAAGTG ATCCATCCAC CTTGGTCTTC CAAAGTGCTG

245

GGATTACAGA CGTGAGCTAC TTCACCTGGC CTTGTTGGCT CTTTTTCAAA AAAAGTTTAC TNGACTCTTG CTTTATTGCA
AGTCCCAGAA TGGATTTGAT TTAGGGA

SEQ ID NO:838:   (Length of Sequence = 275 Nucleotides)
AATTGCCAAG GAAAATTTTA TTTTAGCTTT GCATTAACAT ATTCTAAATA ATCCTTTCAC TTAATGCAAT CAGATTCCTG
TGACAAGCCA AATACTTGTT TTTTTGTGTG TGTGTGTTTC CCCTTCACTT TTCATTGTAT GCCCTTCAGA AAAATCTGAG
AAGTGGGCTT CCATTTTTGA AAAACAGGAC TTCCTTAGTA CCATAGATAC GTAGATTGCA ATTNCCTTT TCCTGCAGCA
TTACTGACCT TGTGAAATGA TGCCTATGGA TACGG

SEQ ID NO:839:   (Length of Sequence = 387 Nucleotides)
TTTTTGTNTT GTGTGTAGAG ACTGGGTTTT NCCATGTNCC CAGGCTGGTC TTGAACTCCT CGGCTTAAGC NATCCTCCTG
CCTTGACTTC ACAAAGTGCT TGANTTACAG GTGTGAGCTA CCACGCCTGG CCATGTTTTC TTGTGTGAAG GATCTGTTTA
GTTTTATATC TTTCTGTGGC TCATATCTAA TTTAGTTGAC AGTACCTGTG GGTCACTAGG TAGACATTGC TAGCAGACGT
TTAGAAATGA AATACTAGAG CTTGGGAAAA AGTTGATATT TGAGATAGAG ACTTGAAGAA CATTAGCAGA GAGTTGGTAG
TTAAGGTCTG TGAGCTGGTG AGCAATTCAA AATAAAAGCA GAAGAGAAGA GGAAGACAAG GGTCAAC

SEQ ID NO:840:   (Length of Sequence = 367 Nucleotides)
GTACTAAAGC CATGCAGGAA GGAGGAAATA ATCAGTGAGC CACGGGCTGA ACTTGTGGAA AAGAAATGGA GGGCAAGGTC
ACAAACCAGT CCCTAACTGC TTCTAATTTA ATGTAATCCT CACTGTTTGT CATTATTGCT TTTNATGGCC ATGAAATCTG
TTTTTCCCCA GTNCTCTAGT GTAATTTGGA ATTAATTTCC CAGCTGCTTT ATTTTTTTCC TAGAAGAGTC GGGGACATTT
TCAGGATTAG TAGAGGTGTT TCTACAACAC CTTCATGCCT TCGATAGTGT GTAAGAGTTC ACCAATTGAN TTACCTTATT
CTGTTCAGAA GTAGTAACTA TGGAGTTTAA CCACTCTGGG ACATAAT

SEQ ID NO:841:   (Length of Sequence = 346 Nucleotides)
TGGAAAGGAA AAGCAAAAGA TTGAAGAATA AAAACATTTT GTATTTGCCA AAACTTGTNC TGTAGCAGTA AGTGTGAAAC
AAGTTTGCTA CATTTTTCCTT TTTGGTTTTA CTTGGTTGGG GCTTTTTTGT TTGGTTGGTT TTAAAGGATT TAGGGGATTG
GCAAGTCAGT TTGTCAGATG TCAATGAACA GAAAACCTAA GAAAAAAGGT AGCAAAAGTN CTGCTGGCCC CAGATGGATT
TTNCCTTAAG TAATTTCCTA ATCATTAGTT ACAGCTCTGT GTCAAAAGAT GTACATAGAA ATTTATGCTA GATTCTTAAC
ATCTTTCCTT ACTGTGTGCA GAAATG

SEQ ID NO:842:   (Length of Sequence = 326 Nucleotides)
GTTCTTTGAA ACAAACGAGA ACAAAGACAC AACATACCAG ANTCTCTGGG ACACATTCAA AGCAGTGTGT AGAGGGAAAT
TTATAGCACT AAATGCCCAC AAGAGAAAGC AGGAAAGATC TAAAATTGAC ACCCTAACAT CGCAATTAAA AGANCTAGAG
ANGCAAGAGC AAAGACATTC AAAAGCTAGC AGAAGGCAAG AAATAACTAA GATCAGAGCA GAACTGAAGG AGATAGAGAC
ACAAAAAACC CTTCAAAAAA TCANTGATTC CAGGAGCTGG TTTTTGAAAA GTTCAACAAA ACTGATAGNC CACTAGCAAG
ACTAAT

SEQ ID NO:843:   (Length of Sequence = 380 Nucleotides)
GGCCTTCAAA TTACAAAAAG CAATTTACAT TATAGTAATA GTT'ATGTTT ATAGTACAGG AACAAGAATG AGTTAAACTA
AATATTCCAA ATCAGTACAA GTNATTNCCT TTTTTTTTTT TTGAGACAGG GTCTCACTCT GTCACCCAGG CTGTCTTGCT
TTGTCATCCA GGCTGCAGTG CAGTGGAGTG GTCACAACTC ACTGCAACTT CAGCCTCCTG GGCTCAAGCA AGCCTCCCAC

CTCAGTAGCC TCCCACTCCT GATTAGCTGG GACTACAGTG AATGTGTCGC CATGCCCAGC CTAGTGGTAT TTTTAACAGA
TAANTAAGAA TGGAGGTAGT GGCAGAGGTG GAGTGAGANG AGAGACANGT AAAATATAGG

SEQ ID NO:844: (Length of Sequence = 257 Nucleotides)
TTTCCCTCTC GTTGCCCAGG CTGGAGTGCA ATGGCGTNAT CTTAGCTCAC CACAACCTCT GCCTCCCAGG TTCAAGCAAT
TCTCCTGCCT CANCCTCCCG AGTAGCTGGG ATTACAGGCA TGTNCCACCA CGCCTGGCTA ATTTTNTATT TAAGTAGAGA
TGGGGTTTCT CCATGTTGGT CAGTCTGGTC TCAAACTCCT GACCTCAGGT GATCTGGCCA CCTCGGCCTC CCAAAGTGCT
GGGATTACAG GTGTGAG

SEQ ID NO:845: (Length of Sequence = 420 Nucleotides)
CTACACACAT CTTGCATTAC CTGGCAGTAA GCTTGGAGAG TAAGTTTTGC AGATGCAGAT CAGAAGAGAT TAGGAAGAGC
TTTGCAGATC ACCGCAAGTA TTTGTATTTC ACTCTAAATT AAACAGAAAA CCCAGGAAGG GTTTTAGGCA GATAAATGGC
ATTATTTAGT TTCTGTATTT AAGTCATCAT TTAGGTTACT GGGGGAGGCT GCCCTGAAGT GGATCAGAAG TAAAAGGCAG
AGATACCAGC TAGGAAGCTG TTGCAGTGAG CCAGGTGAGA AGAGAGGGCC ACCTGGACCA GGTAGAAGCA GTACAGGTGA
AAAAANTCAG ACACTTCCAA ATCTTCCTCA AGATTTNATA CATTATTTGG CTGGGCACGG TGGGCTCACA CCCGTAAATC
CCAGCACTTT TGGGGAGGCC

SEQ ID NO:846: (Length of Sequence = 215 Nucleotides)
GNCTGGGTGA CAGAGTGACC CTGTCTCAAA AAAACAGTGA TTGTTTGTAA GGAAATTATT AAAACCTTGG TTCAATATCC
AATATCTTAA CTTTAAATTT TCAAATACTT CAAAACTAGT AAGTATTACT ATGTCTAAAG CACAGTGCAG TCCAACGGAN
TATGTGAGCC ACATATATAA TTTTAACTAG GCCAGTAGTC ACATTAATAA GAAAA

SEQ ID NO:847: (Length of Sequence = 266 Nucleotides)
ACACGAAGAA TCTCCTTCAT CGCCAAACAG CTTTCAGAGA TAGATGCTTT GTTTCCAATC GAGCATGCTA TTCCAGTGTA
CTGNACATAC TGTTACCTC GTGTTAGGCA CCTTTATGAA GAGATNAAGN CACTGGCATT TCAGTGGGAT TTTAAGCATT
TTTAATAGCT TCATGTACAG CATGCTGCTT GGTGNACAAT CATTAATTCT NCGATATTTC TGTAGCTTGA NTGTAACCGN
TTTAAGAAAG GTTCTCAAAT GGTTTG

SEQ ID NO:848: (Length of Sequence = 275 Nucleotides)
CNCCTCGGTC CCCTTTTAAA AATTACTTTT CAGCCGGGCA TGGTGGCTCA NGCCTTGTAA TTCCAGCACT TTGGGAGGCT
GAGGTTGGAG GNTCACCTGA GGNCGGGAGA TTGAGATCAG CCTGACCAAC ATGAAGAAAC CCCGTCTCTA CTAAAAATAC
AAAAATTAGC CGGGCGTNGT GGCACATGNC TGTAATCCAG CTACTCGGGT GGCTGAAACA GAAACCACCA ACGNCTGACC
TCAGGGAGAT GTCTAAGAGC TTCTGGCATG CCTCA

SEQ ID NO:849: (Length of Sequence = 318 Nucleotides)
GGAATTTTNC TAGTGAGGAG TGGAGGAAGG GGGCCTGGTG GAGGAGTAGC AGCCTTTNCA AAGGCCCTGA GGCAGGAATA
CCTGGGAAGT GGGGGCGTGC TTGTNTAAGA TGAGGCTAAA GAGGAAGGCG AGGCTTTACT TAGGAGGAAT GGGAAGCCAC
TGAGTGTTAA AATTAAAAGC AGTNGGGGCT GGGCACAGTG GCTTACACCT ATAATCCCAG TACTTTGGGA GGCCAAGGTG
GNTGGNTCAC CTGAGGTCAA NGAGTTTNAG ACCAGCCTNG CCCAACATTG GGCTCTACTA AAAGTACAAA AATTAGCT

SEQ ID NO:850: (Length of Sequence = 320 Nucleotides)

ATGTCTGCCA ACTCAGGAGC AGGGCAGGAA TCAAACTTTT TGGAGTTGCT ATCAAGTNCT TGATTTTNCA ATCCCAACCG
TCCGCAGAAC ACTAGATGTG TGNATGTNTG CTTGTGTGTG CATTTGTAGT AAAGAGGGGG TTGAGAAGTG GAAGGCAGAG
NCAGGAGTNG GCATCTACCA NGGCATACAT NAAAGACCCT TACACCAACA CTGCCCTTCC CAGNAATGTG AGTGTAATCT
GGTTTCCTAA AACCCTGGGC TGCAGTCCAG ATAGTCATGG TTAGANCAGA TGGTTGAGGA AAGGTTCAAG GCAGTAGGAT

SEQ ID NO:851: (Length of Sequence = 170 Nucleotides)

CATCCAAGAT ACCAAGATAT ATGAGGGAAC ATTTNNTTTA ATAAAAAACA CAAAACCACA AATCCAAGAG GCTCAGNTAA
CCCCAAGTAA AATATATACT AAAATACAAG NAAAAGGGAA AAAATGCATG NACACACACA TATAGGCATA TCATATTCAA
ACAGTTGTTA

SEQ ID NO:852: (Length of Sequence = 256 Nucleotides)
CAAAGTACAC ANGTGTATTT ATTACATTTT GCAAGCACTC TGTTCTACAT TTCAAAAACG CCACCNTCAA GCTGTTGGCA
CATTTATGTA CAAAACAGAT TAATTGTAAT GCCTGCTACA AAGCACTCTG TGAAAATACA AACTCTAATA CCAGAAATAA
AAGCCAAAAG TGTCAACATC ATTACATAAG TNGAAAAGTC AGTTTTNGAA ATTATCACAA ACTGTTATGN CACGGAACTG
AAATACTATA ATATAG

SEQ ID NO:853: (Length of Sequence = 281 Nucleotides)
GTATGTNGTT TCTCTTCTCT TGCTGCTTCT AGGATATTTN ATCCTTGACT TTAGGGAGTT TGATTATNAA ATGCCTTGAG
GTGATATTTT TNGGGTTAAA TCGGCTTGGN GTTCTCTAAC ATTCTTATAC TTAGATATTG ATATCTCCTT CTAGGTTTGG
GAAGATCTCC GTTGCTATTC TTTTGAATAA GCTTTCTACC CCATCTCTTT CTTTATCTCC TCTTTACAGC AAATAAAGTT
TTAGANTTGC CATTTTNAGG CTATTTTCTA GACCCTGTAG G

SEQ ID NO:854: (Length of Sequence = 255 Nucleotides)
TCTGTCCAGG ATTATTACCA GCTAAACCAN GTAATGGAGG TCTATGCCTG ATGAAGAACA CCTGTAAAAG CTGGAAAATG
TGGCTGTCTT CTCAAATGGG CAGATACCAG CACAANGATA CAAGGATTGT AAAGACTCAG AATCATGTTA CTTCCAGAAG
AAACTANATA AGNTCCAACA ATGAACACAA NATAATANAA CTNAAGGANA TTTGGANAAC ANTGCATAAA CAAAACAAGT
TTAATGAATG ATTAG

SEQ ID NO:855: (Length of Sequence = 333 Nucleotides)
ATAGCTGTGG TGGTAACCCA CCAGAGTGAG CATGCTTNCT TCTNAGGATA GACGTTGGGT AGTGGGATTG GGGAGAGGCA
GGACAGAGGC TTCCGTTGTG TCTCTCTAAT TCATTGTTTC TTAAAAAGGA TTTGGGCTTA CAAGTTTCAA ATACTAAGAT
TTNATAAAGT CACATGGATT TTAAAAAATC ACTCTATTGT ATGTTTGAAA CATTCCATAA TTTAAATAAA AGGATTGGTA
TTATATATGT NCTTGAGTTG CTATAATGTT TTACGGTTTT CCTTTGCTTC ACTTTTGAAT TNTNCGAGGA TCTCCTGGGG
GAAGNTTCAG TCG

SEQ ID NO:856: (Length of Sequence = 230 Nucleotides)
TTTNAGACAA AGTCTTGCTC TGTCACCCAG GCTGGAGTGC AGTGGCGCAA TCTCGACTCA CTGCAACCTC CACCTNCTGG
GTTCAAGCNA TTCTCCTGCC TCANCCACCC AAGTAGCTGG GACTACAGGC ACGTGGCACC ATGCCTGACT AATTTTTTGT
ATTTTTTTTA GTAAAGACGG GGTTTCACCG TGTTAGCCAG GATGGTCTCG ATCTCCTGAC CTCATGATCT

SEQ ID NO:857: (Length of Sequence = 334 Nucleotides)

248

AAAAACAATT AGTAAAAATT ATGCATTAAG GAATTATTTA CTAGACTTTC TGGAAGTAAA AAATAAGTCA GCTGGTTTTC
CCTTTGANTT CCTATATATT AAGGCAGAAT TCTCTATACT GTCCACCAAA ATCATAGTTA CAACTGTTTA CTTGAAATGA
TTTATATACT GCATTGACCT GGCATGTTAA TATTTNCCTA TAAATATCAC CACTTATCCC CATGCCCTAA AGCAGTTTTT
TTAAACCCAT TCTTTCTTGG AGAATAATTA TAATACCTTA AATACAGAAC TTTGGGTTTC TGATCTTGCC ATAGCCATGT
AGCACAGCCA CTGA

SEQ ID NO:858:   (Length of Sequence = 301 Nucleotides)
GGAGAAACGC CTAATGTAGA TGATGGGTTG ATGGGTGCAG CAAACCACCA TGGCACGTGT ATACCTATGT AACAAACCTG
CACGCTCTGC ACATGTATCC CAGAACTTAA AGCATAATAA TAAAAAANTA AGAAAATGGA AATTGATTTT AAAAATTTTT
ACAATGTGCA TCAAAAGACA ACATTAAGAA AATTAACAGA NTGGAAGAAA ACATTTGCAA ATAATTTATC TGATGAGGGT
TTAATATCCA GAAAATATAA AGANCTCCTA CANCTCAACA GCAANAAAAG ACAACCCNAC T

SEQ ID NO:859:   (Length of Sequence = 332 Nucleotides)
TGTCCTCACC CATAGAGCTA TCAGAGGGTG CCTGCNATTG GCAGACCCTT TACATTTCCC TTTAATAAAT CACTTCCCTG
CCAAGATCTC TGTCAAGGTT TGAGAAGTCA GAGCATTAAG TTATTTNCAA TAAATGGTAT GTACATGANC ATCAGCAAGC
TCCAAGAAAT GACTCGAGGG CCTTTNACTA CTCAGAGAAT AAAGCAAAAA TGCCAGGTTT TCAGTGCTTG TCCTTTGTGC
CAGGGATTTG GACGTGTTTT TTGTTAAGTN CCAGCGTTGA GCTATGTTCC AGAAGATGGA GCCTTCCAGA AATTAATTGT
AGTGCTTGAA GG

SEQ ID NO:860:   (Length of Sequence = 233 Nucleotides)
AAACGNTATG TGATTTTAGC ATTACAACAG TAATTCAGAA ATATCTCANN TGTTACATTG ATGTCATCAN TATTACAAAA
AAGGAAAAAA AAGTGACAGG CAACAGTGAA GAGCACCAGA GACCCAGCGC ACACCTAAAG TAGACCATGC TTCTTTCCTT
CCACTGCCAG GTTATCGTCC CGGGAAGCCC CCCACCCCCT CGCTTCCTC CTCCGCTTTC CCTAAAAAAA NNG

SEQ ID NO:861:   (Length of Sequence = 327 Nucleotides)
GGGCAGGTGT CAGCGCCCGT TTCACCGCCA CGTCGCGGAC ATGGTGATTT CAGAAAGTAT GGATATACTC TTCAGAATAA
GAGGAGGCCT TGATTTGGCT TTTCAGCTAG CTACTCCTAA TGAAATTTTN CTCAAGAAGG CACTGAAACA TGTNTTGAGT
GACCTGTCAA CTAAGCTGTC TTCAAACGCC CTTGTGTTCA GAATTTNCCA CAGTTCAGTG TATATATGGC CTAGCAGTGA
CATAAACACC ATTCCTGGAG AACTGACTGA TGCTTCTGCT TGTAAGAACA TACTGCGCTT TATTCAATTT GAGCCAGAAG
AAGATAT

SEQ ID NO:862:   (Length of Sequence = 378 Nucleotides)
AATCAGGTCC ACATTGTTGT CCTGGATGCT GAGTTTGCTG AGGGTTTCCA AGACCAGTCT CTGCGGGGAA AGGACGGCAT
TGGGGCCCAG GGTGGAAAAG GGGTCCTGGG CTTCANCTGA AGGGCAAACT GCCCAGTGTA GGAGTCCGTC CAGGACAGGC
AGGCAAAATNC TCTCGGGGTA TGGAGATAGG TCCAACTGCC CCGAGATGTT GGCGAGTGTA ACCAAGGTGT TTTCCCGGAG
CATCTCCAAG CAGTCCACC ACCACTCCAC TTTTTTGCAG CTCACCCCTT GGGTCCTGTT CCTNCTCCTT TTCATAAGTT
AGTGGTGCCT GCTTTCCGGT TCTGGGTGCT TTGTGGGTGC AGCAAGGATC AAGCTTTG

SEQ ID NO:863:   (Length of Sequence = 374 Nucleotides)
TCAAATTAAT GGTTTTATTT CCATCTGTAA CACTAGCAGA GGAGTCCAAA GCAGACTGAT ATCCATGGAT ATAGTTTAAA
TGTAACAAAG AAAGAGTTGA ACTATGTACA TTGAAAAAAG GAAAGACATT TTTNCATACC AACCTTTCCC TAGTTCGCAG
TTTCTGAATA GTAGAAACAA AACACATTTT TAAATCTTTC TATCAATTTA ATTTAGGACG AAGTAACACA ACTTTTATAA

TTAACCACTG AAGTNGTCTT TAAGGACAAA ACTTAAATTT TAAAATGGGT GTTACCATAT TTNATGAGTG GACTGACTCC
AAGGTTGCCT TGCTCCAAGN NTGGGCATCG TGACATTGCC GTGATGCCCA GAGG

SEQ ID NO:864: (Length of Sequence = 223 Nucleotides)

AAGGGGATAG AGCAGACACT CCGCAGGTNT CTTGAGATTA TCATCCGCTG AGGGTAGAGC TGAGGGTGGA AGGGGAGTNA
GCAGACACTC GGAAGGTGTC TTNAGGCTCA GGGAGTTATC AATTATAGAA TGTTGTTGAG TTGGAGGAGG TGGCTGGTGG
CCCATCCTGT TTTTTAAAGT TTCANCTGTG AGGTAGGGCC AGTAGGGCAA TCCTGAAGAA TGG

SEQ ID NO:865: (Length of Sequence = 228 Nucleotides)

GAACCCGGGA GGCAGAGGTT GCAGTGAGCA GAGATCACAC CACTGCACTC CAGCCTGGGC AACANAGCAA GACTCCGTCT
CANAATTTTN CCAAAATCTG ACGGAAAGAA AAGAAACAAA TGGTTCAGAT GGGACGGAGG GTGGGGGAGG GGGGGAGGGT
GAGTAGGAAC CAGGAGGGCT GCCTGGGGTG GGGGAATAAN TTAAAAAAAG GAACGAGTTA ACAACAGC

SEQ ID NO:866: (Length of Sequence = 328 Nucleotides)

GCACCACGTC AGAGAGGCCC CAGGCCACTG AGCCCGGGAG GAGACCCAGC CGGCCAGCCA GATGTGTGCC TGANTGCCAC
AGACTTCAAG CAGTTTACAA ACGAAACTCA CTGTTAAAAG CTGTTAAATC TCATTAAAAC AGTAGACGAG TGCTTTAGAT
TCTCTGAATA TCAAATAATA TATACAGATA GACACTGAGA CATGACAGTC TAATCTAAAG CATCTTTACA GATGCATTTN
CTTGAAAAGT TAGTCTTCTT TTTAACTCTG AATCAGTGAT AAAAATTGTTA ATTTGCAAAA GAGTACAGTT TTAAGCAAGA
NTAGAGTG

SEQ ID NO:867: (Length of Sequence = 361 Nucleotides)

GTTTCATGGC ATGTNAAAAT TATGTGAAAT TCAAATTTTA GTGTCCCCAG TTCTACTGGA ACGCAGCCCC TATGTGGTTC
ATGTNTTGCC TCCAGCTCCT TTCACACTGC AGCAAAGCAG GGAGTGTAAC GTACACCCCA CGGCCACGGG GCCTAAAATA
TTTCCTATCA GACCCTTAGA GAAAAATATG CCGACCTCGG ATGTGACTGA GGGTGGGGAC TTGGGTGAAT GCCGGCCAGG
AGTGACATCA AGGGTTTGAA GCAGACCCTC TGTCCAGGAG GGAGCGGAGG CAGAGCAGGG ACAGTAGTNA GGAGGCCATC
TGTGGTGACT TAGGCAAGGT GAGGAGGATG TAGGAGGCAA G

SEQ ID NO:868: (Length of Sequence = 364 Nucleotides)

AAAGCAGCCT TCAGGCTACT CTCTCTTGGN TCCTTGCTCT GGGGAAGAAC ACTCAAGCAG CTTTAGAAAA AGTCCACGTG
GCAAGGAATT GTGGTCTTTT GCCAACAGCC ATGTGAGTNA TCCATCTTAA GAGTGGNTCC TCCAGCCCCA GTAAAGTGTT
CAAATGACAG CAGCCCTGGC TAACATATTG ACTGCAACTT CATCAGGGAA CTTGAGCCAG AAAAACTCAG CTAACCTGCT
CCTAAACTTC TGACCCACAG AAATGGTGAG ATAATGAATG CTTGTTTTAA GCTGCTAAGN TCTGGAATAA TTTGTTATTC
AGCAGTAGNA TAACTAATAC AANGCCACCC AAGNATCATT TCCC

SEQ ID NO:869: (Length of Sequence = 383 Nucleotides)

AGCGACAGAC AAGTGAGCAT CACTACCAGA GCTCTGCCTC CTGTCAGATC AGTAGCGACT TTAGATTGTC ATAGGACCAT
GAACCCTGTG CATGCGAGGG ATGTGGGTTG CACACTCCTT ATGAGAATCT AATGCCTGAT GATCTGAGGT GGAACAGTTT
CATCCTGAAG CCATCCCTGT GCCCCTACCT GTGGAAAAAT TGTATTCCAT GAAACCAGTT TTTGGGGCCA AAAAGATTGA
GGACCGCTGC TCTATAAGAA ACTATTACTG AAATAAGGTA TAAAGTCTTT ATCTTACTTA TATTTATATC CTCTATGGTG
TCCACACACA AGGTGCTTTT TACACTTAAG TTGTTAAACT AAAATATTNC TTTANACTTT AAT

SEQ ID NO:870: (Length of Sequence = 409 Nucleotides)

CAGCTTTGCA AATCAAATAG AAATTCATTTT GCCTCCNCTN ATCTTACAAC TATTCTCTGG AGTAGGCAGG CTGGTTGAAC
TTCAAGAGAA GAGGCGTTCC TGAGAGCCTC CTTGGTGAGC TTGCACACCT GGGGGCCAGA TGTNCTTTGC CCTCCTTGCA
AAGCCTCTCT AGTCTGGTGC CCAGAGAATA CAGCTTCAGC AGCAGCTCAC TTTGCTTTTN AGTTTAGATG AGAAAAAACA
GCAAAATAGT CCATCAAGGA CAAATTCTTG CCAATGGATT TNCTTTTGCA AGGANGTTCA CCTTTGNNCC TCAAGCATCA
TCTTTAAGTT GTGAATGCCT GATGGGAGGT CCAGGTTGGN CTGTGGGAGG AGCTNGGGGT GGNTTCCAAA ACCACCTGGG
GACCAGTGG

SEQ ID NO:871: (Length of Sequence = 290 Nucleotides)
TCTTTGCATT GATAGATTAG TTATTTATGC CAGTNGTCTC TGTCTGGCTT GTTTTGGTTT TNATTGCATT TGTTTGCTAG
AGATTCGTTT TAGTTTTNCA ATTTCTTTCT CTGTACACCT GCCCCTCCCC CACCCCACCA CTGGGTTACT ACCTCCTTTT
TGGCACTACA TGATGCCTTA AGCCCAGGNT TGCCTAAGCT TTCATAACAG ATCCCAGCAC TGCTCATCCC CAGTGGTGGA
GGTNCTAAAT GGGATAACCT GATAGTGTGG GAAGGCTGGC TGGGGGTTGT

SEQ ID NO:872: (Length of Sequence = 313 Nucleotides)
AAAACAAAAC AAATTTAAAA GCACTCAAAA ATAACCTCAA AAAGAGACTA GTGAGTGTCC CTTAAGGAAA GCCCTTCCTG
CAGATTCCCA CAGAACTCGG CCCAGGCACT TAACCTCCAT CTCAGCTCTG GTACAGCTCA CTGCGTACAG TGTGTACCAA
ACTCTTATGC CTGGNCTGCT GATAAATTCT ATTTATCTCT GAACCTCAAT TTATTCAAAT CTAGTTATGA TATATCATAG
TGCTTGTAAT TGTTGTAAAA TATAGANGTA ACATACAGCA TGTGTCTACA CGNTTAATAA ACTGGTGCTA ATT

SEQ ID NO:873: (Length of Sequence = 300 Nucleotides)
TAGTAAACAA GTATTACTTC AACTGATACA ATGGCTACAT GACATCAAAG TACTATAAAT NATCAAAACT ATCGT.-CAGA
AAAATTACAA ATTCGTTGCA AAATACATTA TACTGCTACC ATTAAGAAAA AAGTGCTTTT NGTTTTCCTT TCTTTCTTTT
TTTTTTTTTT TTTTGCCAGA AAAGTATTCT TNCAATATAG AAAATCCTAC ATGTTACCCT GCATGTGGCT AGGNTATATC
ATAACGGAGT TTGTACTGAG TCCTTCTGAT TTGCTGGATG AAGGGCTGAA AAATATATTA

SEQ ID NO:874: (Length of Sequence = 364 Nucleotides)
GAGTCATTGA TGCTGAGAGA TTGTNAAGAA TATACTGACA GCATCCTTGT AGCTGCATCA CAGTAAATCG GACTTCTGAA
TCAAGCAGCC CAGCCTAGCA GCTGATAAGA GTGAATGTAG GTGAGAAGCA TTACCTTATT CCTGTAACAA GAGAACTGTT
TTGTGATAAG TGAAACTAGG AATGTAGAAG AAGAAATATC CTATGGCTAT TATAAAAGAN GAAGGACTTG CCTGANTGAC
TTGGTGGTGC ACCAGAAAAT AACTTTCAGA AGAATGCTTT CTGTTAAGCT GCTGCATTGT TCCTGGAGGA AATGTTATTT
CTAATGCATG TTATTTCTTC AAAAGATAGG ATAACAAAGA ATTG

SEQ ID NO:875: (Length of Sequence = 341 Nucleotides)
ATCAGTCCAA TGCAGATTAG TATCACTTTG CTCATAAAAG AGAGTATAAA GGTTCTTGAA GTTTTTGAAA GGAGCGGCTN
AGCTGACTGT TAAGGAAGCT ATCTTTTGTC TACAAGAAAT TTATACTTTT CCCTTCTAAA TTTCACAAAC AGAATATTAT
TAGAGACAAC AGAATACATT TACAAAAATG GCATCAGAAA TAATTGANTA CATTGTGTAC AATATCTNCT ATTAATGAAA
TAAATGTATA TTTNATATGA TATTTGGTCT TTATGGGAAA ANTAATATAA TTNCCAATAT TCTAAGGNTG ANCAAAGNNG
GTTTACAAAT AGCATGCAAG G

SEQ ID NO:876: (Length of Sequence = 327 Nucleotides)
GTTTCANCTT GTGGGTCAAC TTCTAATATT TGATGGTGGC TACACTGTGA CAAGAAAGGT TTTTNAGCTT GTTGGGGTCA
GTGGATGGGC ACAAGGGCAC CCAGTGGTGG TGCCCGGNCC AGGGAGGAGA ATACATTGTA GAATATAAGG TTTGGAAGTC
AAATTATAGT AGAATGTGTA TCTAAATAGT GNCTGCTTTG CNATTNCATT CAAACCTGAC AAGNCTATCT CTAAGAGCNG

CCAGATTTCC ATGTGTGCAG TATTATAAGT TATCATGGAA CTATATGGTG GACGCAGACC TTGAGAACAA CCTAAATTAT
GGGGAGA

SEQ ID NO:877:   (Length of Sequence = 404 Nucleotides)
ATTTGGCTCC TGAATGTTGC AGAAAACTGG TTTTGTACAC TGGGGAAGGA GAGAGTGAAG ACCCTCCAGT TGGTTCCTCA
GTCAGCTCCG TTCTTGGTGT CGCTTTCTTG CAATTTTTTT CCTCCCCTGG CCCTTCCTGT GAGGGTTAAA AGGGCCATCT
CCAAGCCAGG TGGAGCCCCA ATCCCATTGA CCAAGAGGGC AAGGTATGGG GTCACCTTCT CATGGAAGCC CTCTTCCTAA
AGGAGCCCAA AGGGGACACC TGCAGAGGGC GGGCTGTGAT CTGTGTGTGA ACTTCAACAA AATCTCAGGT TAGTATTTCT
CCAATTTCAG TTGAACCACG ATGTGGTATA CACTACAAAA TGCAGATTCT GGTGCCCCTC TCCAAGAGTC GGCCTCAGTT
AAAA

SEQ ID NO:878:   (Length of Sequence = 340 Nucleotides)
TGTACCGCTG TGCTGTTGGC ACGAACACCT TCAGGGACTG GAGCTGCTTT TATCCTTGGA AGAGTATTCC CAGTTGAAGC
TGAAAAGTAC AGCACAGTGC AGCTTTGGTT CATATTCAGT CATCTCAGGA GAACTTCAGA AGAGCTTGAG TAGGCCAAAT
NTTGAAGTTA AGTTTTCCAA TAATGTGACT TCTTAAAAGT TTTATTAAAG GGGAGGGGCA AATATTGGCA ATTAGTTGGC
AGTGGCCTGT TACGGTTGGG ATTGGTGGGG TGGGTTTAGG TAATTGTTTA GTTTATGNTT NGCAGATAAA CTCATGCCAG
AGAACTTTAA AGTCTTAGGA

SEQ ID NO:879:   (Length of Sequence = 372 Nucleotides)
GAAAAGATAA TGAAGGAATA ATGCAAAGCT GAAGGCTGTG CCAGATGTAA GAAGTGATTA TGAAGGATAA AAGAAAAGGG
CTTTCCAAGC AGGGAAGAGG CATCAGAGAG AAAACCAATT GTTGAGCCAG TATTCTGTCA CAGGGACATT TGTCTTTNTC
CTTTAATGCC CAGTAAGGGT CTTCTCAGGT TCCATTAAAC ATGCAGAATC ACAAGACCCC CCCAAAGTTA CCATGGTGCC
AACCGACTCA AAACAATACA GACAAGAAGC TCAGCTCATC AGGAAGGCTG CAGCAGGCAT ATGGGAACCA TCTTGCTCCA
CAAAGGACAG CTNAGATGGC AAAGATCCCT ACAAGGGTCC ATATCCACGG GG

SEQ ID NO:880:   (Length of Sequence = 405 Nucleotides)
GAGCTAGGCA CCAGGCATTC TGTGAGGCCC CAGGAGTTTA AGAAATGAAT TAAATATTCT CCCCTGCCCT CTTTGAACTG
ACTCTAACGA GGAGACTTAA GANTTATTTT GTAATCTCTA GTTATATTTN CTGAATTTCA GAGCTTAAAT ATTATACTTC
AACATGAGTC ACACCTTTAT TTATATGTTG GTTTGTCTCA GCTGTGTTGT GGGTTGGTGG AAGGAGACCA CACATACATA
CACACAGAGT ACATACATGC TGTTGATGTT ACACACATAC TCACACCCCA CAAAGTGAAG CTCCATGCTC ATTTTGTTTA
ACAAAGACTA GAGAGGCCTT GCAGACAACA GCTACCTGGA GCAGGAACAA GTGAAGCATG TTTCTGAACC ATTTCTCAAG
TCACA

SEQ ID NO:881:   (Length of Sequence = 336 Nucleotides)
GTCTTTNCAG TCAAAAGTCC TTGAAGCTGG GACCCTTTGA AAGTCTGTCA GTTACATGTT GTTGGTAGTG GCTTGTTTTG
ACCGTTTCAA AAAAGGAAGA AAAAACCACT TAAATCATTT TTCCTTTCTC TTTTCTACTG CAAAGGCCGA CGAGATTGAA
ATGATCATGA CGGACCTTGA AAGGGCAAAC CAGAGGGCAG AGGTGGCTCA GAGAGAGGCG GAGACCTTAA GGGAACAGCT
CTCATCGGCC AATCACTCCC TCCAGCTGGC CTCACAGATC CAGAAAGGCA CCAGACGTGG AGCAGGCCAT AGAGGTGCTG
ACCCGCTCCA GCCTAG

SEQ ID NO:882:   (Length of Sequence = 369 Nucleotides)

TGCCATTAGC AACACTGTTC AGATGAGATA ATTAAGAAAA AAAGCCAATT GAATGATTGA GTGAATGANT GATTGAAAAT
CTTTCCGAAG TTATAATAAT AATTGTGATT ATTGGGGTCA AAGCAAAACC ATTTTAGTCT AAAAGATTGT ACACTATACC
AACTTTTACC CAATTTGGAA TGAAAAATTA CATTTCCAAA CCATGTAGAA ATTCTGANCT CTTTGAAATA TTTCCTTTTG
TGGGAAAGAA CCAGAAATTC TTTGTCATAT GTACCCATTT ATCTTATTTN AGTTACCCAA CCAAAAGATA AAATAATATT
CTCAAAGAGA TAATTGACTG GAGGAGTTTA AAGTGTTTAT AAATATTAG

SEQ ID NO:883:   (Length of Sequence = 369 Nucleotides)
CTGCCATAAG AATATCAGCC TGGGGGCAGT CCAGACGCAG CCCTTTGTCA TCCTTTCTGT TTGCCTAGTC TCAGCAGACT
GTGATCACAA GGCATTGTCT GTGGGATTTT NCCTTTCCCT TTCTTGATCT CTCTTGTGGT TCTAGGTTGT TTGGTTGTTC
ATTGTTATGG TGGCTTTTNA TTTTAACGCC CCTTGAGCCC CATGATGGCT GGTGTCACCC TGTTCCTTTA CACTGTTGGG
CCAGGTGCTG CTTGTCCTTC TTAGGGCATC ATCAATTGCA AATATTTCCT TTTGCTCCCT TTATGAAGAT GTTCTTATAC
CCTTGCTTTT CCATATTTTT TNTGGGCCAA GCAATGCCAT CTNCTTTTA

SEQ ID NO:884:   (Length of Sequence = 327 Nucleotides)
AGTTCATCTT TTTCCAGAGG GGTCTGGGTG CCTTTAAAGG GGTGCAGGCC GAAGAAGATG GTGGCTTGGG GAAACTGGAG
CTGAACTTGG ATTCAGAACT CTGAGGCACC GGGATGGGGA TGGGAATAGG GACTGGCACA GGCAAGGGGA CGATTACAGG
ATACGGCACC AAGAGGGTGG CTGGTGGGAC CAGGGGGGAC AAGGGGGAGC TAAAAGGCTG TGGGGGCACA GGGGCATAGC
CAGGAGGAGG CTGACAGGGT GGGGGCCCGA GAGTGCCCTG GGAGGGAAAC AAATTCTTGA GCACAGCTTC AAATGGCAAA
GTGGGCT

SEQ ID NO:885:   (Length of Sequence = 380 Nucleotides)
CCAAAAGCTT ATCCACCATG ATCAAGTGGG CTTCATCCCT GGGATGCAAG GCTGGTTCAA TATATGCAAA TCAATAAATG
TAATCCAGCA TATAAACAGA ACCAAAGACA AAAACCACAT GATTATCTCA CTAGATGCAG AAAAGGCCTT TGACAAAATT
CAACAACCCT TCATGCTAAA AACTCTCAAT AAATTAGGTA TTGATGGGAT GTATCTCAAA ATAATAAGAN CTATCTATGA
CAAACCCACA GCCAATATCA TACTGAATGG GCAAAAACTG GAAGCATTCC CTTTGAAAAC TGGCACAAGG ACAGGGATGC
CCTCTCTCAC CACTCCTATT CAACATAGGT GTTTGGGAAG TTCTGGGCCA GGGGCAATTT

SEQ ID NO:886:   (Length of Sequence = 400 Nucleotides)
GGGATGACTT TAAACGAGAG CTGGACAGTA TTACTCCAGA AGTCCTTCCT GGGTGGAAAG GAATGAGTGT TTCANACTTA
GCTGACAAGC TCTCTACTGA TGATCTGAAC TCCCTCATTG CTCATGCACA TCGTCGTATT GATCAGCTGA ACAGAGAGCT
GGCAGAACAG AAGGCCACCG AAAAGCAGCA CATCACGTTA GCCTTGGAGA AACAAAAGCT GGAAGAAAAG CGGGCATTTG
ACTCTGCAGT AGCAAAAGCA TTAGAACATC ACAGAAGTGA AATACAGGCT GAACAGGACA GAAAGATAGA AGAAGTCAGA
GATGCCATGG GAAAATGGAA ATGAGGAACC CAGCTTCGCC GACAGNAGGC TTGCCCACAC TGATTCACTT TCGGAGATGT

SEQ ID NO:887:   (Length of Sequence = 363 Nucleotides)
TAAAATAAAT GCTCTGGATG GGAGAAATGT GGAAGTTACT TTGGAACTGG ATAATAAGTA AAGGCTGAAA GAGTACTGAT
ATACATGCTA AATAAAACCA ATATTTCCCT GAATGANCTA TTCAAAGCAA TTCTGGTGGG TGTTAGACAG GACATAGAGA
CCTGGAGAAG AAGCTCCCAT TTTCATAAAG AACACAAACA ATCATGTATA GAATGTTGGT AGAAATATGA ATGGTGAAGG
TCAATGTAAT GAAGTCTTAG ATGGGAATAA GANAGGTTAT TAGACAAGGG AGAAAAGGTA ATCCTTGTTA TAAAGTGGCA
AAGGAACTTG GCCTGAATTG TATTCATGTN CTAGTGCTTT CCT

SEQ ID NO:888:   (Length of Sequence = 318 Nucleotides)

ATCTTGCATG ATTAATACTA TTGGCCTGTN CCCTTTATCC TCAGCTGGTT GTACAATTCT TGAATGCTTT CTTCTTCCCC
TGAGGATGCT ATAGATATTG TCCTACTGTN ATCTGAAATN AGTCGTTTTG GAGAAGTTTC TCCATCCAGA TACCTATAGA
GTCTGTCTTT TTTTTTTTTT TTTTTTTTTT ATATGCAAAC NCTCGCTGTA TTATTCAGGC TGATCTGAAT CTCCTGGNCT
TTAGTGTTGT GACAGCTTTG GCCTCTTAAA ACTGCAGGNT TACAGGCATG AGCCACAGTG CCTGGCCATC AAGTAGCA

SEQ ID NO:889:   (Length of Sequence = 349 Nucleotides)
ACAGAAATCT ACGTAGACTT CTNCCAAATG CCACATGAGA GCAGTGGCAG AATACAGAGA GACCGGCGAC CACAGCAAGG
AACTGTAACG GCCAACAGTC CTCAGGCATG CAGGCCTGGG CCAACAGCAC AACGCAGAGT CGCTTCTTCT CAGTCCAGCA
ATTAAAATGA CCATGGCAGC CAGGGTTTCA TTAGGTTACT TTCAAAAACC ACCTTTGCTG GAAAAAATGT TTGGTAGTTT
AATCTGCATA TACGGACAGT CATGCACCAC ATAATGATGT TTAGGTCAAC GATGGACCAC ATATTCAATG GGTAGTCCCC
TAAGGTTTAT AACCAGCATA TTTTTTACT

SEQ ID NO:890:   (Length of Sequence = 341 Nucleotides)
GTNGTAGGGG TTCGTAGGTA GGGCTAGTAG GTAGGGTTAG TAGGTAGGGC TAGTAGGTAG GGCTAGTAGG TAGGGTTCGT
AGGTAGGGTT CGTAGGTAGG GTTAGTAGGT AGGGTTCGTA GGTAGGGTTA GTAGGTAGGG TTCGTAGGTA GGGCTAGTAG
GTAGGGCTAG TAGGTAGGGC TAGTAGGTAG GGTTAGTAGT TAGNGCTAGT AGGTAGGGCT AGTAGGTAGG GCTAGTAGGT
AGGGTTCGTA GGTAGNGTTC GTAGGTAGGG TTAGTAGCGC GTCTNTCCTT CTTCCACCCT GGNTNCTTGT AAAACNTTAT
TTTACAAGCA ATAGGAATTT G

SEQ ID NO:891:   (Length of Sequence = 344 Nucleotides)
GACCTGGCTG CGCACCAGGA CCGCNTGGAG CAGATCGCCG CCATTGCCCA GGAGCTCAAC GAGCTGGATT ACTACGACTC
CCACAATGTC AACACCCGGT GCCAGAAGAT CTGTGACCAG TGGGACGCCC TCGGCTCTCT GACACATAGT CGCAGGGAAG
CCCTGGAGAA AACAGAGAAG CAGCTGGAGG CCATCGACCA GCTGCACCTG GAATACGCCA AGCGCGCGGC CCCCTTCAAC
AACTGGATGG AGAGCGCCAT NGAGGACCTC CAGGACATGT TCATCGTCCA TACCATCGAG GAGATTGAGG GCCTGATTCT
CAGCCCATGA CCAGTTCAAG TCCA

SEQ ID NO:892:   (Length of Sequence = 367 Nucleotides)
CTGGGCAACA TGGTGAACCC CATCTCTGCT AAAATACAAA AATTAGCTGG GTGTGGTAGT GCCTGCCTGT AATCCCAGCT
ACTCGGGAGG CTGAGGCAGG AGAATTGCTT GAACCTAGGA GGTGAGGTGG AGGTTGCAGT GAGCCAAGAT AAAAAGAGTG
AGACTCCGTC AAAAAAAAAA AAAAAAAATA TATATATATA TATATATATA TATATTTNGN CTCCAATCCC ATCTAGGTTG
CTGCAAATGC CATTATTTCA TTCTTCTTTA TGGCTGAGTA GTTTTCCACT GTGTATGTAT ACCACAGTTT ATCTTCTTGT
TGATTGATGG GCGTTTGGGC TGGTTCCACA TTGTTGCCAG TTGCAAA

SEQ ID NO:893:   (Length of Sequence = 220 Nucleotides)
GCAAAATATT TATTCCAAGT TAGTTATTTT ATGCAGTAGT TTCCCCCTCG AGACTTGTGA TAACCACATC TTTTAAATCT
GTAAATAATG TTATCAAAAT AATCTTAATC TTTGAAATCT CACAAAAATT TATATTTTAC AATCCACCCT GAATATCAAG
GCTGCAAGAN TAACACAACA TTTCCTATAT CCAAATATTT TACAGCTGTA CCCAAAAAGG

SEQ ID NO:894:   (Length of Sequence = 313 Nucleotides)
GGGATTGGGA TTGTTTGGCT CTGAGGCTGT TAAGTCTGGA CTGATGCTGG AAACTAATAT CAATGTTTNA CAGGGTTGAC
TGTCATTAAT GATGTGCCTA GCTGTGGGTA CAGATGCTTT GCACATTACT ACCCTCTATT CTCACAATCT TCCATGGGGG

254

ATGTATTAGA ATCCCCTTTT ATAAAGGATA AAGGTGAGGG TCAGAGAGAC TAGGAAGCCT GTNCAGGGTG ACACAATACA
AAGTGTCATA AATTGGGTTT GTACTCAGCC ACTCTGCTTA TTAACATCAG CAGTATGGTT AATGGGGTGA CCG

SEQ ID NO:895: (Length of Sequence = 304 Nucleotides)
GGTCTAGATT CAGTTATGAA TGTAGGCATT AGTTAAAATT AACAAGATGC AGAGTATTAA TTTCTTAAGA CAACAAGTG
ATTTCTGTAA GTTTGAGCCC TATGTGGAAA GCATTGTGGA ATCTTAACCT TTTTGTACAC ACTCTTGTGG GACGTATCAT
ATAAATGTCA GCACTAAGTA ATGTCTTGTT TGTGGCTGAA TATTTTNCGT AGATGTTTTT GAAGTTGACA TGACTTACGT
GCATTTAAAT ATATATTGCC ATCCCTTAGT TTGTAATTAA GGATTTNGGA ATATGGGTTG TGGG

SEQ ID NO:896: (Length of Sequence = 337 Nucleotides)
GCAAAGTATT TCATCATATG CATGTACTGT ACCTTATTTA GCCAGCCCCA TTTTGTTTGG CTTGTGGAGA ATTACAATAG
CTGTTTTGAC TGTTGTATCA CATGCCAGGC ACTGTACTGT GTATTATCTC ATGTAATTCT CATAGTTACT GCATGGTGTA
GGTATTTTNA TCCCCAGTTT ACAGGTAGAG AAACTGAACC CAGAGATGTT AAATAATTTG CCCAAGTTTT TTGGCTGATT
ATACTGATGA AGATACTGAT ACTAGCATTC TGTTGTCAGT TATTTGCCAG ACAGAATTCT TTATTTTTTA ATACATAATA
TCCATTTACT CTTGAGG

SEQ ID NO:897: (Length of Sequence = 316 Nucleotides)
NATCACCTNA GGTCAGGAGT TCNAAACCAG CCTGGCCAAC ATGGCAAAAC CCCGTNTCTA CTAAAAATAC AAAANTNAGC
CAGGTGTGGT GGTATGTGCC TGTAATTCCA GCTACTCAGG AGGCTGAGGC AGGAGANTCA CTTGAACAGG GAGGTGGAGG
TCGCAGTGAG CCGAGGTTGC AGTGAGCCGA GATTGCACCA CTGCACTCCA GCCTGGGCGA CTNAGCGAGA CCCTGCCTCA
AATAAAGAAA TAAATAANTA AAGTGGGGAA GTTAGTGGTT TCTGGTGTAT TCAGAGTTGT GTACCCATCA CCCTGG

SEQ ID NO:898: (Length of Sequence = 200 Nucleotides)
GAGATCTGGG GCTGGGGTAT GGATGATGGG GGGAAGGGCG GTCGCCTCTG CCACTGTCAG GGACCAGCCG GCCAACGCCC
ACCCGNAAAG GTGTCTAAAA ANTTNAGCTT TTCACCCACC TGCCCCTTTC TTTCAATCCC ACGCTGTTTC CTTTCAAAGT
TCTGGGAGGA CGAACTCACC GAGGCGAGAA GTNTAACATT

SEQ ID NO:899: (Length of Sequence = 264 Nucleotides)
CTCTGTAAGT TAGCGGTCAT GTTTTCAGCC CCATGCAAAG GCGCAANACN TCAGACAGCG TGGTTCTNTN AACATNAGTG
TGTGGTGCCT CCCAGGAGCA GGGATTTNAG CNAGGCTGCT GACACATAAA CACACCCCCA CCTCCAGAAG CAGAGGAGAG
GAGCCCAGGG CCAGGGCAGG TAGCTCAGCA AGGACCCAGC ATGCTNCAGG TGGGCCAGT AAGAGTCACT TCTCCAGCNA
GGGTCAGAGA GGAGAGAGGC AAGA

SEQ ID NO:900: (Length of Sequence = 265 Nucleotides)
GCAAATGGTA AAAAACCAAG TCAGCAGAAG AAATTAGAGG AGAGACCAGT TAATAAATGT AGTGATCAAA TAAAGCTAAA
AAATACCACT GACAAAAAGA ATAATGAAAA TCGAGAGTCT GAAAAGAAAG GACAGAGAAC AAGTACATTT CAAATAAATG
GAAAAGATAA TAAACCCNAA ATATATTTGA NAGGTGAATG CTTGAAAGAA ATTTCTGAGA GTAGAGTAGT AAGTGGTAAT
GTTGAACCAA AGGTTAATAA TATAA

SEQ ID NO:901: (Length of Sequence = 381 Nucleotides)
CTTCTGTGCA TATAAAGAG AACAGTCTGG NCACTTGAAA ACAGACACCT TCTGGTTTTC AATGTGTTGG TCAAAGTGGC
GATACAGCAA GGTTTGCAGG GTGAACACAG TGTCGCACAT GGAACACTTA TATANATTT TNGGTTCTCC TATCTTGATG

255

CCAGGATGCT GTGTGTAGGC GTGGGAATNT GTGCTTGGGG CAGACTTAAA CGCCATTGGA CAAATAGGAC ACTTGTAGAA
GACTTCACAG TGAGAACCTT GAATNTAAGA CTTCAGAGCA GCCACATCAG AGTACACAAC CATTGCAAAT GCACCACATC
GAAAACCAAC TCTCCTCGTG TAGTNCAGAC AGTTCTTTGT GGCGTGGGGT CTNGGAAGGT G

SEQ ID NO:902:   (Length of Sequence = 331 Nucleotides)
GGTTGCCAGT GATCTCCTTT CTTATCACCT ATAGACAGCT TGCCTACAGG AAAAAAGAAA GCCAAACACA GACAAGCAGT
ATGAGATACA ATGAGCGCCC TTGGGCCATT AAAAATATGAT TGTNTGCCCA AGGTCGCCTG GNCTGCAAAC AGCTCTCCAG
AACCTGCAGC CAGCACAGAC CAAAGTCAGG TTTGTNTCCT CTTCTGTTGA TGAACAAAGG TTGATTCCAT ATCGTGGCTA
TTGTGAATAG TGGCAGTAAA CATGGCAGTA TTGTATGAAA ATATNACAGA TTAGNCCCTT TAAATATGTG CACTATGGNT
GATCTATCAA A

SEQ ID NO:903:   (Length of Sequence = 389 Nucleotides)
AGCAATACTA AACATAAATG TAAATTGGGC TAAATGCTCC CAATTAAAAG ACACAGAGTG GCAAGCTAGA TAAGGAACCA
AGAGCCATTG GTATGCTGTC TTCAAGAGAC TCATCTCACA TGCAATGACA CACATAGACT CAAAATAATG AGATGGAGGA
ACATTTACCA AGCAAATAGA NAACAACAAA AAATATTTCT AATAGATTTC TGCTTTTAAT AATGAAATAT GTCAAACTCC
TATAAAAACT ATATGTAGGA AATATAAANG TTTATATATA ATTCATGTAA TGGNTAATAG TAACTGAATA GCTAGTATTG
AATAACCAAG CTTCCTTTTG TTGTTTTGNA CATTGGNGNA ATTGAACATG CTTAAAGGTA TTGGGAAGG

SEQ ID NO:904:   (Length of Sequence = 285 Nucleotides)
AAATCAAGGA CCGGTTAGAT AGATGATGGG CTAGGCAGGT GGGGGAAGAC AGAGCTCACT GCCCTNTGGG GTCTCTGTGG
GGCCAGCCCC TNATGCCCAT GTGGCCACTN ATGCCCAGCT TCCCCCAACA CCCCANCACA GGCCCAGGTC AATATTACAA
AAGTGAACAA ATGCAACCTG TTTCTGCTTT NACAAATGAC ATGTCTCCAT CCCCGGCCAG CAGGGGTAGG GGAGGNCGGT
TGAAAGTGNC ACTCCGGTTA AAAAGGCAAC AACTTTTATA AAATG

SEQ ID NO:905:   (Length of Sequence = 374 Nucleotides)
GAAGCAAAAA GTTGAACCTT TTAAAGTGCT GAACACAAAT CCAAATTCGA ATGGTTCAAG CAGCCGTGAA ATCGCTCTTC
ATAAAGTGGG CTTAATTCTC TAGTTTAAGT TCTTTTGATG GAATGAATTA ATTAATGTGT CAGGTGGCTT ATTTGTGGAT
GCCATGATTG ATGATGTTCA TTTTAAGCTC TTACCTATAG TACAAGTACA TGATGCTACT GAATATTTTT TCCACTTGGA
AACTGTGAGC TGGGTTGTTG CATTAAAACA CACATACANA CANAATCANN AAACACTGCG GACTTTTCAC TCAAGCTGGG
TCTTTTCTTC CCCAGTGGTA AGGGCAAATC CTGGCCTANC TAACCAACAC CCAC

SEQ ID NO:906:   (Length of Sequence = 375 Nucleotides)
CTGACTGAAA GGCTCTTTCC AGCTCCAACA CATGAAGGTT CCATAATTTT CCCCAAATGT CTGCCGCTCT GAAAACTTCA
ACTATCTTAA TATTTGTGAC ATTTATGCCT GTGTATGGCA ATCTGATGG AAAAGGAGCC ATATGTAAAT AATAACTGAA
ACTTTGTCAA AATAATGTTA AGGAAACATA ATTAGCAAAG CAATATATAA TTNCAAGTCC ACTGATTTAG AGAATCAGAA
GTAACANTTA GAATCAGAAA TAACAACTAT CTGGCAGGGA TGGAAAAATG AGAGCAGATA TAAAAGGTGT ACCCCAACCC
CTGACCCCAC TGCCCATTTG GGTGTGCACT ATGTNTTTCC AATATTAATA TCTTT

SEQ ID NO:907:   (Length of Sequence = 390 Nucleotides)
GTGCTGACTT CAGCAGCCCT CTGAAAGGCC CCTTCCATAA GCTGGGAAAG TATGATCATG GTTTCATCAT CCTTGTTGGT
TATTACTTCA AGGTTGACCA ATCTGAAAGC TCTGTGTGAA GAAGGGGACT GAGTGGCTGT GAATGATGAG ACCGTTGTTT
AAAAGCTAGG CTTTGCCTGA GGTCCGGAAG AAGCAACCTC AATGCTGTGC TTTACCATAG CACCACCTGC AGGTATCCAG

GAATAGAGAA CCCAGCTGAG CGACTCATGC TTNACCAAAA ATACCCAGAG CAGTGTGTCT CTACCTTTTT AAGCCCATGC
TCACTAGTGG GGAAAACAAT TTTACCCCCC TGTATTTAAA TATGGGGATT TCAAGGCAAA CAAAAGCATT

SEQ ID NO:908:   (Length of Sequence = 207 Nucleotides)
CTTGCATACA GGTGGTAAGT TATTACATTA TTTCTNCCTC CTGTCTACCT GCAGTTGGTT TTATGAGGGG CGTTAGTACA
CTTCCCAAAG GGCTTGCCCG CAGGTTNAGA GGTGCACATT GAACTCCCTC ACCAGGCAGA TGGGAAGTGT GGCCATGAGA
GAGAGCTTCA GGGGNCCTNG GNTTATNACA TCGCTGGGCC AGGANAT

SEQ ID NO:909:   (Length of Sequence = 339 Nucleotides)
GCAAGAGAAC CTGATATAAT ATCTATAAAT TTTGATTCCC TGGGGTATAA CAAGTAAATA ATTTTTAAAT GGTGCTTAGC
AAGATTGGTT CATGGNAAAT GAAGCAATTA TGGCTTGANT TTATATGTAC AATATTTATT GTCTTAATTT TAATTTAAAA
CGAATGACAT GTCTCTTTTT TTAAAAAAAG TCTTCTTTTA AAGATCTTGT AGTTGATGTG ATGAGCTATG CACTGCTAAA
TATTTATCCA CACATAAATA TTTGANAAGG AATATGGNAT AGTCATGGGA TGTAGTTTCA TCTCAGTGCT CCATGGAGGG
AGTGTTTTCA CCCTCCTCT

SEQ ID NO:910:   (Length of Sequence = 372 Nucleotides)
CTCAACTGCC ACTCACCTAT CTACCATCCA CTACCCANTN ACCACCCACC ATGACCCACC ATTTGCCATC TACCCATCCA
TCCATTCTAT AAATAATTAG TAAGCACTTA ATGCATGCTA GGTATTATTT TAGGCACCAG TAAGACAATC ATGGGNAAAA
AAGACAGACA ACCCCCGACC CTCCCATCCT CAGGGAGCTC TATTCCAGTG AGAACAATCA ATGTGCTAGA TTGTGAAGGT
CATCAGTGCT TGCTGCCCGT GTAAGACTGA GGTTCCCAGG CCCGAGGACC AGNCTGGGCC AGGGCTTCCC AGGGGTCTNC
T..GGGGGA CTCTCAGGAG TCCAGCTGCT GCCCCTTAGC TNAGCACCTG GG

SEQ ID NO:911:   (Length of Sequence = 377 Nucleotides)
GAACTTCAAA AAAAAAAAAA AAGAGGAGTC ATAATAAATA TTTNACTGTC TAGTCAACCC AATTTATGAA GCCTGATTAT
CTAGCTNAGC CTCCGGAGAT TGCTACCGGA AATCTCCCCA GATGTTCCCC CTTCTAACCC AACTNTCCAC TGTNTGGCAG
GAAGGCAGCC GGGCATCTGC ATTCCGGAAG CCCAGCTGCT TGGGAAGAGA GAGGGAGCGG CCTGCACGTN ACTCAACAGC
CCTGCCTGCT AACCAGTTAA CCAGTTCTCA GTTGGGTTCA CGGACCCATG AGCGACCCAG CTTTCTTCCC CTCAGGTTGA
TATTGTGCTC CAAGCTNGGG GATGCCCCGG GGGACTATGT GGAGGGAGAG TTCCTTA

SEQ ID NO:912:   (Length of Sequence = 370 Nucleotides)
ACAATCTACT TGCTACAGAA TCAGGATGTA TTTNCCTATT TATAATAAAC TACAGAAGGT AGATTTCAAA GGTAATGGCT
GTTATGGAAA CCTACTTGAG GTTGTCTGCT AAAACCAACT CAGTGTGCAA AGCGAAATAC ATTTNCTACT TCAATAGCTC
CTCATACTGC ATCTGTCTGT AGAGTTTATT TCAGTAAAAC TGTTTACTAT TTCATGATGA GTAGCTAGAA TTAAAGCATT
AAGTAGCTTG AGAAAATAAT CTATATAAAT CTTTATATCC TACATATGGC TATAAAAATA AATTTATAAT TTTAAAAATT
GTTTTAAATA AACATTTATT TTTTACCCTA CCAAAGTAAA GGGTATACAG

SEQ ID NO:913:   (Length of Sequence = 313 Nucleotides)
GTATCTGGTT GCCCACATCCA AGAAGAACGC GTGCNTNTCG CTGGTCTTTN CTTTCCTCTA TAAGGTGGTG CAGGTNTTTT
CCGAGTACTT CAAGGAGCTG GAGGAGGAGA GCATCCGGGA CAACTTTNTT ATCATCTACG AGCTGCTGGA CGAGCTCATG
GACTTCGGCT ACCCCCAGAC CACCGACAGC AAGATCCTGC AGGAGTACAT CACTCAGGAA GGCCACAAGC TGGAAACAGG
GGCCCCGCGG CCACCAGCCA CCGTNACCAA CGCGGTGTCC TGGNGGTNCG AAGGCATCAA GTATCGGAAG AAT

257

SEQ ID NO:914: (Length of Sequence = 389 Nucleotides)

TTACAGGCGC CTGCCACCAT GCCCGGCTAA TTTTNAGTAG AGATGAGGTT TCACCATGTT GGCCAGGCTG GTCTCAAACT
CCTGACCTCT GGTGATCTGC CCACCTCAGC CTCCCAAAGT GTTGGGATTA CAGGCGTGAG CGACCGTGCC TGGCCTTCTC
CACTGTTTTC ATAGTGAAGA AAGGACACCC AAATTTTGAT CTGGTTCAGC TATTCACTAT TCTATCCTGT GTGGTCTTAA
GCAAGTTACA TAACTTGCCT ATATCTCAGT TTACTTAGCT ATAATATAAA TTAAATTGGT CAAATGTTCT CTAAAGTCTT
ACTAGTTACC AGTGTTCCAT GGGCCCAACA GCATCTACAT TACCTGAGGA GGCTGGTAGG AAATGCAGG

SEQ ID NO:915: (Length of Sequence = 328 Nucleotides)

CNCCAGCAGA TTTTNATTAG ATGGAAGATA ACAAGCATTA CCNCATAGGT AAGTGGTAAG AAATGGCAAG TACAGCCAAG
CCACAGAGGA GTGAGGACAT TACTGGCTAT GGGAATGGGT ACTTATGAAA TCTAAGGGTT GGGTCTCCTG ATGAACTCTA
ACTACCCAGT AAGCTCTTCT CTTTGGCACT CAATATGACC NCTGCTGGCA TGAAAGGGNC TACAGTAGCT ACTTTCAACT
TGGCCAACAG TTCTTCCAGT TCTGGTCGAG CTTTGAATCG TCCCTTTGAA GTCTTTCTTC AGNTGGTGCT CCTTCAACTT
GACAAGTC

SEQ ID NO:916: (Length of Sequence = 365 Nucleotides)

CAACTTCAAG GTGCTGCAAG AGCTTTCAAG AAGATGGGTG TTGACAAAAT CATTCCTGTA GAGAAATTAG TGAAAGGAAA
ATTCCAAGAT AATTTTNAGT TTATTCAGTG GTTAAGAAA TTNTTTGACG CAAACTATGA TGGAAAGGAT TACAACCCTC
TNCTGGCGCG GCAGGGCCAG GACGTAGCGC CACCTCCTAA CCCAGTTCCA CAGAGGACGT CCCCCACAGG CCCAAAAAAC
ATGCAGACCT CTGGCCGGCT GAGCAATGTG GCCCCCCCCT GCATTCTCCG GAAGANTCCT CCATCAGCCC GAAATGGCGG
CCATGAGACT TGATGCCCAA ATTCTTTGAA CTCAAACCAA CAGCT

SEQ ID NO:917: (Length of Sequence = 400 Nucleotides)

GCATTATTTA TTGAAAACTA TGTATTTTTT TGTAAAAACC TGATCACATA GAGAATATCA GTGGCTATAC CCTCTCTGGG
CATCAGTTTC CTCATCTGTA AAGTGGGGAT AATCACAGCC CCCACCACAG TGGGCTTCAG GGAGGAATAA ATGCATTAAC
ACATGGCAAG TCAATTAGGA CGGTGCCTGA CAGGCTGTCA GCGCCCAAGG TTGTGACTTT TGCTTTTCCT ATTGCTACTC
TGCAACCAAC TTTAGATAGT GGTAGANTAA TCAGGAGGCC CTCTTGAATG GGATATTTTG CACAGAAGAG GTCCCAGACC
GAGTGTGTGT GACATGGGAG CAGAAGACCC GGGGTTTNAG CCAGGCTCTG CCACTCATAC GGTGTACAAT TTTCAAAGGG

SEQ ID NO:918: (Length of Sequence = 348 Nucleotides)

CTATTGCACA TGGTAACTCT GTCATACATC TATAAAGCCT AGTAGCTGTA TTGGGTGAGA TGAAAAAAAC TGCTTATATT
CCACAGCAAC ATAATTACAA ATAAGTTTTA ACCTATTAAA GTACAGAGTC TCTCTCATCA CTTTCAAAGC AGGACCCTAC
TTACCAATAA TTCATAGCAT ACCTCCCCTT ATTTTAAAAC TCATATGATA GCTGATTTCC TAACTGTAGC AATCAGGATT
CTTAGAAAGA TTCGAAACTG AATTTAGCTA ACTAAGGAAG CGGATTTCAT TAAAAATATT GGGTTAGTTT ACAGGAATCA
GTAGTGGAGG AACCAGGGTT GCATAAAA

SEQ ID NO:919: (Length of Sequence = 345 Nucleotides)

GGGATGACTT TAAACGAGAG CTGGACAGTA TTACTCCAGA AGTCCTTCCT GGGTGGAAAG GAATGAGTGT TTCANACTTA
GCTGACAAGC TCTCTACTGA TGATCTGAAC TCCCTCATTG CTCATGCACA TCGTCGTATT GATCAGCTGA ACAGAGAGCT
GGCAGAACAG AAGGCCACCG AAAAGCAGCA CATCACGTTA GCCTTGGAGA AACAAAAGCT GGAAGAAAAG CGGGCATTTG
ACTCTGCAGT AGCAAAAGCA TTAGAACATC ACAGAAGTGA AATNCAGGCT TGAACAGGAC AGAAAAGATA GAAGGAAGTC
AGAGGATNCC ATGGAAAAT GAAAT

SEQ ID NO:920: (Length of Sequence = 299 Nucleotides)
CCCAGGTACT CAGGGAAGGG GCAGGAGAAC CACTTGAGCC AAGGAGTTCA AGGCTGCAGT GAGCTGTGAT CACACCACTG
CATTCCAGCC AGGACAACAG AGTGACATCC TGTCTCAAAA ATAAATAANT TTTTTAATGA TGAAACTAAC TAAGGTACTG
AGGAGGTAAG ATATTTCCCC ACGGTAAGTC ATTCAGAAAC TAAATGTGAA AAACCAAAAG AAGCCTCTGG GGTTAGTATT
CCCAGTCTCC TTGTCTGCCC AGGACCCCAC ATTTGTGTAA GTTGCTAATT GCACAAGGG

SEQ ID NO:921: (Length of Sequence = 234 Nucleotides)
ATGAAGCAGA GGCAACCAAC AGAAATTGAC ATCAGAAACT CTGCTGGNTC CCCACCAGCA TGCTACCGAT GANTCCTGCT
CTCTTTCAGA TGAAATTTTA TTTTTTTNCC AATAAGGCCA GCCCTACCCT GGAATCTGGA ACCANTTCTG GCCCAGGGTA
GAAAGGCTAC CAAGCACCTA TGGTAGAAGC CCTGGTGTCC AGGNATGCCT TGGNCCTTAT TATTGACCTT CTCT

SEQ ID NO:922: (Length of Sequence = 328 Nucleotides)
TAGCAGGGTT ACTGGCCTTG GCTGCGGCCA AGGGAAAACT CTGCAGGCCC TATTACTTGG CGGCCTTTAA CTCTTATAGA
ATTGGGAGAG AACACTGACA AAAGCGAGGA CATGATTTTN CGGTTACAAA TNATTTTCCT TGCTTGCTTT CTTCTCACCC
TTTTNAATTT TCCTTTTCTN CTTTTCCTGT CTATCTTACC TTCCCTCCGT GATCCCTGCC AGCCCCTCCT TTCTTATTAT
AGCTGATCAT GGCAGTATTG TTTTTTNCTG GGTAAAAATC AGAGTGGGAT TTAGAGAAAG CTTAGCAGGC CTAGCATGAG
GGCCTTAG

SEQ ID NO:923: (Length of Sequence = 371 Nucleotides)
CAGGAAACCT ACTGTGAAAA TGCAGAAAAA CAACAGCAA AATTGATTGT TGACTCAATA TGATATATAG TTCAAATGTA
AACAAATGCT TGTNAGCATT CCACATCACT GAAGGAAAAA AAGTAAGTTA TTATTTCCAA TGTTGGGAGT TAGGTTGCTA
TAAGCTTATG ANCACACACT TTCAGTGAAT TTATGTAGAA TCGGAAGCAC TTCATTCTCC CCTCACCACA CATCACCCCC
TTGCTCCTCC TCGACACGTG CAAAATGATA GGGCATGGTA GGGGTTGTAG TGAAATNGAG AAGGCATGCC CCATCTCAAG
AAACAGGGTG GACCAGCCAC AGCTTTCAGC TCCANT TGT GATACAGGAA T

SEQ ID NO:924: (Length of Sequence = ucleotides)
ATGATCTGCT TTTTTTTGAT ACCTTTACTT TTNAG AGGNGCGGGG TTTCTGGAGC CGACTGAGGG ACTGGAGAAG
GCTACGGGGG TCCTCGCCCT GCCAGGGCAA TCCTT. CTCTTNATCA TTTGGTTATG CAAATCGCGG TAAAGTTTTT
CCGAAGGGGG TGCTGGCTCC TCTTGGCAGC TCTTCT GT GACTTTGGGC ACCAGGGCTG CTCATACCTG CAGCCTTTTC
GGCCCTCTNG GCCCGCAGGC GTCCGGCCTC CCGAAGCACT GCCATGGCCC GGAATAGCAG CCCCNGAGCA AGG

SEQ ID NO:925: (Length of Sequence = 317 Nucleotides)
AATGCTTTAT GATCAACTTG CCATAGGACT GATGGATTAA CCAGTGTTCG GCTTTATTTG AAGTCTATGC CCTGCACAGC
TCTTGTATGT ATTTNAGATG CTAGAAGTTT TTTNAGCATG TNATGTGTGA TTCTTGTTTG AATTCTAGGN ACCTTGTCCA
ACTTGGTTCT TTTTCAAGGT TGTTTTGGGT ATTCTGGGTC CCTTGCTTTT CCATATGNAT TTNAGGATCA GCTTGTCAAT
ATCTGCAAAA AAAAAATCAG CTATATTTTG ATAGAGNTTT GTATTGCATC TTTAGGANTG GTTTGTTGAG TATTGCC

SEQ ID NO:926: (Length of Sequence = 247 Nucleotides)
GTTATTCATA CCACAGCATT TAAAAAGCAA TCCGCAAGTN ATAAAAAAAA AAAAAAAAAA ATGATGTGAC ATATCCATTG
CCTGANTTGC CTCTTTTGTA AGCCAGTNTT GGGATTATAG CAGAGGAGTA GCAGAAATAA NTATATTCAG ACACAAACAT
ATAGATATAA TAATATCCAA CCNCTTTATA TGATTTAGGG TCTCGTTAAA ATGGTTACCA TTTGCTTCTC CTAAAANTTA
TATAAAT

SEQ ID NO:927: (Length of Sequence = 286 Nucleotides)
GGCTGTCATG AGAATCACTT GAACCCGGGA GGCGGAGGTT GCAGTGAGCT GAGATCATGG CACTGCACCC TAGCCTAGGT
GACACAGCAC AAAAAAAANC AATGTTCCAC AAGTCAAAAA TTGTNTTCAG GGAGTAGAAA AGTAGTAGGC TAGGTATCAA
AGGGTATGAA TGACTAAGTT CCTTCTATAA TATATTGACT ATAGGTTAGG AGATACACTT TCAGTTCCTG TTTTTNGTAG
ATCTCCCAAT GATCTGTCAT TTAAGAGTAC ACACGATGAG TGGAAA

SEQ ID NO:928: (Length of Sequence = 349 Nucleotides)
CTTGTTTAAC CAGTATTTAT TGCACATGGT TTTGTTATCT ATTGCATGTG GTAAATTACC CCATACTTTG CTTCTTAAAG
CATTAGACAT TTCTGTAGGT TAAGAATTCA GAAGCAGCTT AGCTGAGCAG TTCTTGCTCA AGGTCTGTCA TGAGGTTGCA
GTCAAGGAGC TGGCCAGGGC TGCAGTCATC TGAAGGCCTG ATTGGGGCTG GAAGACTCCC TTTCCAGATG GCTCCCTCAC
AGGCTTGGCA TGTCAAAGCT GGATTGTTGG CAGGGGACCT CCATTCTTCC CCACATGGGC ATCTCCATAG GCTGTTTGAC
ATGGCAGATN GCTTCCTCCA GCAACTGGG

SEQ ID NO:929: (Length of Sequence = 395 Nucleotides)
AGAGGAGGCA GCAGCCACCC CCAAGAAGAC TGTACCTAAA AAGCAAGTTG TGGCCAAGGC CCCAGTGAAA GCAGCTACCA
CCCCTACCCG GAAGAGTTCT AGCAGTGAGG ATTCCTCCAG TGACGAGGAA GAGGAGCAAA AAAAACCCAT GAAAAATAAA
·CCAGGTCCCT ACAGTTCAGT CCCCCCGCCT TCTGCTCCCC CACCAAAGAA GTCTCTGGGA ACCCAGCCTC CCAAGAAGGC
TGTGGAGAAG CAGCAGCCTN TGGAAAGCAG TTAAGACAGC AGTGATGAGT CTGATTCAAG TTCTGAAGAA GAGGAAGGAA
ACCCCCAACT AAGGGCAGTA GTCTCTAAAG CAACCACTAA ACCACCTTCA GCAAAGAAAG CAGCAGAGAG CTCTT

SEQ ID NO:930: (Length of Sequence = 214 Nucleotides)
ATCCAACAAT GACAACTCCT CTTCGGACAA TATTGGCACT CCATTCAAAC CTTGTTTCAG GTCAGTCCGC ACTTCATCAT
CTCCCAATTT GTCCAAAACA TACTGTAGCT CAAGTACAGT TTTTAAACGT TTCTGTNCAG CTTCTTCTCT CATAAGCTGC
TCCCGACGTG CTGTCTTCTT NATTGTTTTC TGAATATCTT GACTTAGTGC CATG

SEQ ID NO:931: (Length of Sequence = 245 Nucleotides)
GAAAGTNTTC ACAACATGA TGCTTATCTA ATAAAATATC ACTGAGCAAT AAGGAGAAAT ATTTTAAATA GATTTGAAGT
TGTGAACAAA TAATTTAGAG TCCAAAGAGG ANAAAGANAA TTAACTCTGT TTTTNATCCC TAGAACTCAG AAACTTTACT
GGATTGGTCA ACAAAGACAA ACTTTTTATT GTATAAAACA GTAGANTTCA TGGAAGGGAT AATNCTTTTG GAACAGGCTT
CTCGG

SEQ ID NO:932: (Length of Sequence = 303 Nucleotides)
CATATTGGGG GCCAATATA AAGCAAAGCT GGAAGAAGGG ATGATCCATG TATTTNTGGG GATGGGATAT GGACAGGGAA
ATAGTGTTCC AACTCCATGC TGAGTGTTGT TTTGAATTGT AATGTGAAGT TGCCACCATA CCAGGGCTAT GACTGTNTAC
GATGTCTCAC CCTTGTAGGC TAGTAGCTTT GCAGTGGGAA AAGATGACAG GGCCACTTGT CCAGGGCATT CAGGTAATAA
AGTCCCTGAG CTCCAAGTTG CTAGATCTAA GGAAGTATTT TTCCCTTCAT GTCAAAGATG GGG

SEQ ID NO:933: (Length of Sequence = 186 Nucleotides)
CTCTTTTGGG CTGTTTCANA TCTCCGGCGA ATTGAAAGCA GTGATCTCTC AGGTGCTAAC CGGNATAGTA TTAGAAGACT
CCAATATCTT GCAGCCTGTG GGACTTACTG TATTLTTCTT TGTTTTGTTT CATTTGCTTT TGGGTTCTTG GTCATGAGGT
TTTGCCTAAG CCANTGTCTT CAAGGG

SEQ ID NO:934: (Length of Sequence = 336 Nucleotides)
GGGAAAACGT ATCAGCACAT GAAATACCTT GTAACTATTT CATTTATATA ATTTGCTACG TGTTCTTTGC AACATAGTGA
AAAATAATCA TGTCTGATGT TTAGTAGGCA CATAATAAAT AGTAATGGAA TGAATGGTTG TATATTTAGA GAGCCATGCT
GAAAGGTTAA ATAGCAAAAT ATGACTACTT GGAGAATAAT GTTAAATTGT CAAGGAGAGT AGTGTTATAT GAATACTCAG
ATGGATGGAT ATATAGANAA TGAGAAAAGC GACAGAAGGA ACTTAAAGAG NTTTTAAAAA TAGCTTTGTC TAAAGATTAA
AAATTAAAGG TTCTAA

SEQ ID NO:935: (Length of Sequence = 383 Nucleotides)
AGGTAAGAAA ACTGCTGAGT GGGCTCCTTG TACCAGCACC AACCAGCAGC CCTTGACAGC ATAGATGGGA TGAGTGTAAG
GGCTATCCTT AGCATAAGGG AAAGACGGTT ATAAGCTGAG AAGATTGAAA GAAGAATGGA GCCACAAAGA GAATAGCATA
AATAACAAGA AGGAAACATG AAGAACAAGC ACTTAAGNTA TTAACTTTCA GTCTTTCTCC ATTTCTTGAT GTCTAATGAG
GCAAAATAAC TGGGCAAGGA CCACCAAGAT GAAGAAGTTA AATAAAATGT CACAATGAAA TTNAGGTGCA ATAATACAAC
TGTTGACTGA CTTTCCAAAA CCACGGTGAT CGGTAGAGTA TCATCAATGT TACCGAGGAT TTT

SEQ ID NO:936: (Length of Sequence = 204 Nucleotides)
GAAGCTGTGC CACCCTTCTN AACTTTNATG AGCTGCCTNA GCCGCCAGCC ACCTTCTGTN ACCCAGAGGA AGTGGAAGGG
GAGCCCCTGG ATGCCCCCCA NACCCCAACT CTGCCCTCAG CCCTTGAGGA GCTGGAGCAA GAGCAGGAGC CGGAGCCCCA
CCTGCTAACC AATNGCGAGA CCACCCAGAA GGAGGGGACC CAGG

SEQ ID NO:937: (Length of Sequence = 386 Nucleotides)
CTAACTAAAT AAGGGTTGCC AGATAAAGTA CAGAAGGCCC AGTTAAACTT GAAATGCATA TGANCAAGAA ATATATTTNA
GTATGANTAT GTCTCATGCA ATATTTGGGA CATAATTATG CTAAAGAAAG TATTCACAGT TTTNCCAACA TTCAAATTGG
AATGAGTGTC CTGTATTTTN ATTTGCTAAA ATGGGCAACC CTAAGCTGGT ATCTCTACAG TTACATACAC TTACCAACCC
CACCCATTCA TACTGGTCCA AGTTACACCC CAAAAGAGGG CAGAAACAGA ATCTGAACAA GCTCAAGTTT NGAGGGCAAA
AATGTTTCAT TCTGCCTTCT GGATTNCTGT ATGAAGACTT TTGTTGTGAA AGATATGAAT AGAACC

SEQ ID NO:938: (Length of Sequence = 349 Nucleotides)
GACACTTTCA GAATTAAGAA GCCTTGCCCT CTTTGCGTGT CTTCACAATT GTNTTAAGTC TATTATAGTA TTCATTTTAG
TTTGAAAGCA ATAAATACAA TATTAGTACA AGCACACTGT CAAGAAATCC CTAGAATATG GCTCCTCTGA AGGTTGACAT
GGGTCTGCCT CGCATGTATC TTTTCATCTC CAGCATCCAG ATCAGAGTCA ACAACAACAA CTCTACAAAT ATCAGGCTTC
TTGGTGGAAA GAAATCTGGA CATTTTTNCT ATGAAAAAAA AGTTAGGTTA CATGGCATTA ATATTTTTGC TAGACTTAAC
CTACAGAAAA TGTTTCAAGC TTATAAAAA

SEQ ID NO:939: (Length of Sequence = 374 Nucleotides)
GAAATAAAGC CTCACAAGAA ATAAGGTGCT TATGGTGTTA AGTTACAATG GAAAATAATC AATGGCATTT GTATGCATGC
TGCATGTGTG ATGTAGATCA GTTCATAGGA GATGGGGCAA CAAATAAATA TCACCATGGG GATGTGATCA TCAAAACCCA
GGCTGTGGAA AACTGTCAGT CAAGTTTCTT CAACATATTG CAAGAAAAAT ATGATGGCTT GAAAATCTAT AGATGAAGCA
ATTTAACAAA CCTACCAATC TCATTTAATC TTGATTACTT TTAAAAAAAG ATTAAAAAGA TGACAGAGAA AGGGTTTAAA
AATTTGTAAG ACACGGCTGG ACGCGTGGGC TCACACCTGT AAATCCAGCA CTTT

SEQ ID NO:940: (Length of Sequence = 385 Nucleotides)

GTAATCCCAG CTACTTGGGA GGCTGAGGCA TGAGAATTTC TTGAACCCGG GAGGCGGAGG TTGCAGTGAG CAGAGATCAC
GCCACTGCAC TCCAGCCTGG GCAACAGAGC GAGACCCTGT NTCAAAAACA ACAAAATAAA TTTCCTTTTA ACATCTGTNC
CAAAAATGAG ATAAGCGTTA TCAGGGCAAG TCCATCCTCA TCACTCTTTC CCTCCCCACT GCCCTCTCCA CGATGCCCAG
CTGATCAAAA GTCATTTTTA CTCATAAGAC CAAAGTATCA TGGGATACTG TGCAGTTNGA GAGCAGGTTG ANCATCAGAA
ATAATTGCTG ACAATAAAGT AAAAGATGGG AGAAAAGCAA GGCCNATTGT ATATAATACA GCTTC

<u>SEQ ID NO:941:</u> (Length of Sequence = 406 Nucleotides)
GGTAACAGGT TTTTACCAAC AATTGCTTGT AGCTAATGTA GAACATACTT GAGAAAATGG CTTCTGTGAA AGACCAGTTA
GTACCAAAAT AATCTGGCCC AGAAAAAATAG CCACCATTCT TGACTACATT AATAGAAATA GAATAACCCC CAAAGGGAGA
TGAGAAGCAT TCTAAAGTGC ACTGATCATG AGTTTCTATG TGATGATTTG TGTCCATTTG GAGCTCCAGT GCTTTAAAGC
TGAAATGAAT CCTGGCCTTT CACCACCCTC CCTGCCCATA GTATGGTATA TCCTCTTATT CCTTCCCTCT TAGCTTACTG
AGAGTGTAAT TTCCAACCAG TTAAGGCCAA AGAGGACTAT TTTCTAGGAA AGGAGAGAGA GATGAATTAG CAGTTAATGG
AGGAGT

<u>SEQ ID NO:942:</u> (Length of Sequence = 296 Nucleotides)
GATGGCTCAT GCTAGTTCAG CAAATATTGG GCCCTTCCTG GAGAAGAGAG GCTGTATCTC CATGCCAGAG CAGAAGTCAG
CATCCGGTAT TGTAGCTGTC CCTTTCAGCG AATGGCTCCT TGGAAGCAAA CCTGCCANTG GTTATCAAGC TCCTTACATA
CCCAGCACCG ACCCCCAGGA CTGGCTTACC CAAAAGCAGA CCTTGGNGAA CAGTCAGACT TCTTCCAGAG CCTGCAATTT
CTTCAATAAT GTCGGGGGAA ACCTAAAGGG CTTAGAAAAC TTGGCTCCTC AAGAGT

<u>SEQ ID NO:943:</u> (Length of Sequence = 223 Nucleotides)
GTGCCATTAC AACTTTNCTG TAACCCTGAA ATTGTGTCAA AGTGAAAATT TTTTAAATGA GATTATAAGA GCATAATCAA
ATTGGAATTT CCTTAGGATA CCAGAGAATC ATTTNCTTCT CAGGTAAAGG ANTTTTCCTT TTNGTAGTCC AGAGCTATAC
ATGATTAAGA AANTGTTCAG NCCAGGAAGA TGACATCTCT GCTAACCTAA TCGATTATCA TGG

<u>SEQ ID NO:944:</u> (Length of Sequence = 327 Nucleotides)
CCAGGCACTC AGGCTGGCTG TCCCTTTNNT CCTCCTGCCC ACCCCATCCA CTCTGAGCAT CAATGCAGCC GGCCAGTTGC
AGGCAACCAG GCAGCACCCT GGCTGCCCAG GCAGGCTAAG AGGCCCCCAC CCACTCCCCC CTCCTTTGCC AGTGGAAAAG
CTTGCCGTAG GCATAGCTTT CCCAGCCTTC CCTGCTTCAN AGGCAGGAGC ATGGCACTCT GGGAGTTGTA GTGCTCATAA
CACTCAGGCG ATCCCTTGTG CAAATAACTG GAGGAGAGGA CTATGGTATT GGGGAAGAGA AATTNAGGAA TAAGCAAGGA
GTTGGCT

<u>SEQ ID NO:945:</u> (Length of Sequence = 222 Nucleotides)
CTTAAACAAT AAATACACCT GAGTTAGTTT TCCAAACCTT TCCTCCTGAT TAAATGCCCT TAAAACTTAA ATCTCTTGTT
ATCTTCAGTT GTGATCTAGT CCCAAGTGGA AATTACGTTT AGCTTTAAAA CCATGAATTT AAAGCTCAAG CCTGTAGCTG
GCTGCCTAGG CANTTTATGA TTAGTTTCAC AGAATAGCAC CCACTGGCTA CACAGGNCCC AG

<u>SEQ ID NO:946:</u> (Length of Sequence = 286 Nucleotides)
GCTCTCTCTA CCCCCTCATC TAGGTATGTN TATAGCTCAT TTATTTAGGG GTGATGTTAA AAAATTGAAT GCCCTTAATG
GCAAGGGAAC CAACCAATCA ATGTGGATGC CACAACTTTT TCCCCTGTTG ACTGTTGTNA TTCGTATGGA ACTATTTTTT
TTTTCTCCCA GCTTTTATTT CAGGTTCAAG GGATACATAT GCAGGTTTGT NACATGGGTA AATTGCATAT TGTAGGGGTT
TAGTATACAG GTTATTTCAT CACCCAGGNA ATAAGCGTAG TACCTG

263

TTATAACATT TTGAAGAAAA TCTTTAAAAA TNTTTGTTTA CACAGAAAAT AATCTTAGAA A

SEQ ID NO:954:   (Length of Sequence = 217 Nucleotides)
AGAGCTTAAA AATAGTGAAG TCTTTATAAG TAATTTTTAA AAATTTAAAC TAGGACCATA AATTTCTAAA CTATGAGATA
AATGANCAAG AAAACAAACA GGTGTTTAGG AAAAGGTATG TATATGGTCA ATGAAATAAA TACAACTGTA TTTTTAATGA
GANTTAACAT ATTTTNNTTT AACAAAAGCA GCATGTAACA CACAATGTAT TATATGT

SEQ ID NO:955:   (Length of Sequence = 260 Nucleotides)
TATTTGATAG AATTTTCTAG TGAAACCATC CTGACTTGGG GTTTTATTTT GGAGGAATTT TAAGTTATTA ATTCCGTCTC
CTTAATAGTG ATAGGACTAT TCAGATTACC TTATTTCATA TTTGGTGAGT TTTGGTAGCT TGTGTTTCTC AAGGAAGTGA
TCCATTTCAT CTAAGTTGCC AAATTTATGT GTGTATAATA ATTTGTAGTA TTCCNGTATT ATCCNTTTGA TGTCTGTAGG
GTCTCTAGTG ATATCCTATG

SEQ ID NO:956:   (Length of Sequence = 216 Nucleotides)
CCCTATTAAA TCATTAAGCA TTGCATGCAA TACTTTTNCT GTGAAAATTA TTAACTTCCT GGTATATAAA ATTATTTCTA
GTTATGTTTA AATATTTCCN CTGGGATATT ATCATCTTAG ATCTGTAAAG TGGTACTAAA ATAGTTAAAA ATTATTTNTA
AGATATACAC AAACAGAAAA ATATAAAANC AAATGTATCT TATACATAGT ACTTGG

SEQ ID NO:957:   (Length of Sequence = 353 Nucleotides)
TATGTACCAG GTGTGGAGCC TAGAACAGAC ACCAGTCAGA AGTGCAGATA AGGTCTGACT TTCCAGCATA GCCAGGGGAC
TTGGCTGACT CCACATGTCC CCAGGCCTTA CCTAGCTGTA AAGCAGGCAG GTTGTGAAGT CATAGTGGCA GTTTATGAAA
TATTTAGGGG ACCTAATAAT CTTTAAATTG TATAACATTT CTTGCATAAA TTTCCTTTCA TGAATCCTTT CATGACTTAG
ACCATCTATG ACATGCTTGG ACTTTCTGAC TTGTCCTAAC CACCCCTCTC TTTAAACAAC CAGTCTTTTT ACTTTAGGAC
AAGAATTTAC CATACAAGAT TCTTTTGTAT AAA

SEQ ID NO:958:   (Length of Sequence = 410 Nucleotides)
AAGGAAATGA ATTTGATAGC AGATTGTTAG AGATTAATTA CCTATCATAT GCCAAAGCCA CTTCCTACAT GTCAGTGCTA
AGGAATCCCC TAGAGATGGA ATTCCTAGGT TCAACTGAAA ATTAATTGTA ATTAATATAA TAGGTTAATT CATTGTAATT
ATTTTTAAGC CTTTTGGCAA TGAGTTAATT CCACAAGATC CACATTGCTT GAAGTGTCAC AGAGAACACT TGATGAGAAT
GTNCTAGTAA TAAACCTTAA CCCTCTGGGG AAAAAATCCT ACTGTCTTTC CTTCTGGCTT CGTTTCTTCT GGAACATATT
TNGGTGGCAT TTGGATATCT GGAGGACAAA GGGATCCCTA CAAGGTGGNT GCATAAACAT GCGTGGGCCC AGATGGACTG
TGCTCATTGG

SEQ ID NO:959:   (Length of Sequence = 197 Nucleotides)
GCCCGGCGAC CGTAGCATCT TCTGGACCAC AAAATAGAAC ATTGCCAGGC AAGGCAGGGC ATTTGGGGAA TTTNAGAGAA
AGCAGGATGA GTGATGGAAT TGGGAGGGTG GCACAAGATG TTAAACAGCA TATCTTAGTC CTCATCTAGG GTATAAAACA
GGACCCATGG ACTCTAGCAT CCTGGAATGA CAGAGGG

SEQ ID NO:960:   (Length of Sequence = 345 Nucleotides)
AATAAACTTC TGTTGTTTTA AGCCACCTAG TTGTGGTCAC TTGTTATGGC AGCCTTTGGA AACCAACACA CCCGCACATG
GCGTGTTTAA CGCAGGCTGA TACAACCTTA AGAAAGGAAT GGNTGTGGTC ATCAGCAATC TCCAATACCT ACAGCAAATG

GGAAGACAGG GAAGGACCAG AGGTGTAGGT AAAGCAAAAA GCCACAGGTC ATTAGGAAGT GATGCTCCAA CTGGGCATGG
AAAAGGAGTT TGGAGTTAGG AACACGACAG ATCTGTCTGG ACAAGGNTCC AGATCTCTCC TAGGGGGAAG NAGGGGCAAC
TTAGGACAGT TTTTGTGTCT GTGGG

SEQ ID NO:961: (Length of Sequence = 327 Nucleotides)
GCTGAAGAGG AACATGTGTC CTCGGCCACT TCAATCACTG AGTGTGACAA ACTTTCTTCC TTTGCCACAT CAGTGGGTGA
GGACCAATCT NTGGCCTCAC TTACAGCTCC CCAGACAGAG GAGACAGGCA AGAGCTCCCT GCTGCTTGAC ACAGTCACAA
GCATCCCTTC CTCCCGTACT GAAGCTACGC AGGGCTTGGA CTATGTGCCA TCAGCTGGTA CCATCTCACC CACCTCCTCA
CTGGAAGAAG ACAAGGGCTT CAAATCACCA CCCTGTGAGG ACTTCTCTGT GACTTGGGAG TCAGAGAAGA GAGGAGAGAT
CATAGGG

SEQ ID NO:962: (Length of Sequence = 369 Nucleotides)
AATTTAGATT TGCAAGTTTT CTACATTTTC AAAAACAAAA AACAAAAAAA CAAAAAACAA ACAACAAGAA ACGTAGACTA
GTTGGGCTCT GTCATGCCCA GGACATGAAT CAGCCCCTCA TCCAGCTTCT CTGACCATTA GTCACTTAGT GGTCTTCTTG
GTTTTCAGAT AGCAAGAAGG GTGATTACAG CACGATATTT TGACAGAGAC CACATTCACA TAGCTTTTAT TAGTTATTGG
TTGCTGTTAA TCTCTCACTG TNCTTTGTTA AGCTTTATCA TGGTATCTAC GTAGAGGGAA AAAGCCACGG TATAGATATG
TAGGGTTCCA TACTATCCAG TCTCAGGGCA TCCACTGAGG GGTCTTCJ3

SEQ ID NO:963: (Length of Sequence = 278 Nucleotides)
CTCAAACACC CGAGGCCGGG AGGAAAGAGA AGCCGATGCT TCAGAGCAGA CACTCCTTAG ATGGCTCCAA ACTTACAGAG
AAAGTGGAAA CTGCTCAGCC GCTGTGGATA ACGTTAGCAC TGCAAAAGCA AAAGGGGTTT CGGGAGCAGC AGGCGACGCG
GGAGGAGAGA AAGCAAGCCA GAGAGGCCAA ACAGGCAGAA AAGCTCTCCA AAGAAAATTN GAGATCTCCG ACTCGGCTCC
CCCAGCGCCG CTGGTAAAAG AAGTCACCAA GAGGTTTT

SEQ ID NO:964: (Length of Sequence = 349 Nucleotides)
ACACTCTCAG TATAGACAGT CGTGAAGAAC AAGGCTGAGG GATTTTNAAG TAAACCCATT TTCAGGATGA CTACAATCCT
TCCACTTCTA GAAAACTTAG AAGTACAAGA AATAGCTCTA CTACGGGTAA CTGATTTAAC AATTTCCCAA ACACCCTTTC
CACTACCCAA GCCCGTGGCC CTCAGAGAGA ACCGGGATGG ATTGCCATCT GGGTTCAGAG GCAATATGAG GAGGTTGGGG
GGATGGCAGG GGCATCCTCA GGGTTGGGGG GCAGGCCAAG GGGATGAGAT GGCAAAGGAC AGCTTTNGGA ATCAGATAGA
CGATCCAGCG TGCCTTCCTA CACTTGCAT

SEQ ID NO:965: (Length of Sequence = 361 Nucleotides)
AGCAGCAAGC CAGACGTGAC TGTCAGGAAC AAGCTAAAAT AGCTGTGGAA GCTCAGAATA AGTATGAGAG AGANTTGATG
CTGCATGCTG CTGATGTTGA AGCTCTACAA GCTGCGAAGG AGCAGGTTTC AAAAATGGCA TCAGTCCGTC AGCATTTGGA
AGAAACAACA CAGAAAGCAG AATCACAGTT GTTGGAGTGT AAAGCATCTT GGGAGGAAAG AGAGAGAATG TTAAAGGATG
AAGTTTCCAA ATGTGTATGT CGCTGTGAAG ATCTGGAGAA ACAAAACAGA TTACTTCATG ATCAGATCGA AAAATTAAGT
GACAAGGTCG TTGCCTCTGT GAAGGAAGGT GTACAAGGTC C

SEQ ID NO:966: (Length of Sequence = 163 Nucleotides)

265

CTGCCTTCTG GGTTCAAGCG ATTCTNATGC TTCAGCCTCC CAAGTAGCTG GGATTACAGG CATGTGCCAC CATGCCCAGT
TAATTTTTGT ATTTTNAGTG GAGATGGGGT TTCGCCCTGT TGACCAGATT GGTCTTGAAC TCCTGGCCTC AAGTGATCCA
CCT

SEQ ID NO:967: (Length of Sequence = 365 Nucleotides)
GTGTCAGTAA TATGTTGTAC ATATTATTNC ATCACCCAGG TGTTAAGCCC AGTNCCCAAT AGTTACCTTT NCTGCTCCTC
TCCCTCCTCT CACCCCCCTG CTTCAAGTCT ACCCCNGTGT TTTCTTCTTT GTGTTCCTAA GTNCTTATCA TTTAGCTCCC
ACTTGTAAGT GAGAACATGC AGTATTTGGT TTTCTGTTCC TTTGTTAGTT TACTAAGGAT AATAGCCTCC AGCTCCATCC
ATGTTCCCAC AAAAGTCATG ATCTCATTCT TTTTTATGGC TGCATAGTAT TCTGTGGTGT ATATGTACCA CATTTTCTTT
ATCCAATCTG TCATTGATGG GGCATTTAGG GTTGATTCCC TGTCT

SEQ ID NO:968: (Length of Sequence = 390 Nucleotides)
GTGTATAGTA ATTTAATAGT AATTAAATGT AGAGTATTTG TAAAAACAAG GAGAGGAAAA AGAACAATTC ATATTTGAGA
ACTCCTAATA ATCTTCTAGA GCAGAGTTCA AAGAAGCAGT GGTAAAAATA AAGCCAAAGA GATATAGGGG CTAGTCTTAG
AACCAGGACT TCCTATAGAA CCAGCTTCCT ATAGAATCTG AACTTTATCT GAAACTCTTT CACAGATCTC CTCCACCTTA
ACTTCCACAA AATAAGAAAT TTGGATTTTG AAGGCAAATT TGTATATTTT AAGGAGCAGG ACAATCTCAG CTGTATCTGG
GTTTGCAGAT ATCCAACAAA TCCTACCCAA ATCACTTTTC CAGCTGCAGA CTTGGAATTT CAGATCCAGG

SEQ ID NO:969: (Length of Sequence = 340 Nucleotides)
CAGACAGAAA AAGATTTGAA GAGACGGGTC AGGAACTAGC GGAATTACTG GAGGAAGAAA AACTAAGTTG TGTGCCAGTN
CTCATCTTTG CTAATAAGCA GGATTTGCTC ACAGCAGCCC CTGCCTCTGA AATTGCAGAA GGACTGAACC TGCATACCAT
CCGCGACCGA GTCTGGCAGA TCCAGTCTTG CTCAGCTCTC ACAGGAGAGG GCGTTCAGGA TGGCATGAAC TGGGTCTGCA
AAAATGTCAA TGCAAAGANG AAATAAAATC TAGACGAATG GAGATGCAGG AGCTTCGGGA GCCGAATTCG GGCCTTAAAA
ACACTAATTT GCTGCTTTCT

SEQ ID NO:970: (Length of Sequence = 372 Nucleotides)
TTTTAAGATG GGATCTCACG GTTACCCAGG CTGGAGTGCA GTAGTGCGTC ATAGCTCACT GTGGCCTCAA ACTCCTGAAC
TCAAACTATC CTCCTGCCTC AGCCTCCCAA ATAGCTGGGA CTGCAGGCAC ATGCCACCAT GCCTGGCTAA TTTTTTAATT
ATTTTGTAGA GATGGGGTCT CACTTTGTTG CACAGGCTGT TTGCTTGATT CTTAAGAACG TATAGGGATC CAGCTGTACA
GAGCTTTCTG CAGTCTTTTG TAATAGAATT AGTTGTTAAA ATTGTACTTA TTACATGAGG CATCAAAGAC CTTGGAATAA
AGCTATNCC TCACATATCT GGGCCATTAT TTTGGACTTA CTATGGTTAC CG

SEQ ID NO:971: (Length of Sequence = 337 Nucleotides)
GACTATAGAG AACGCTGAAG TTTTGAATAA AAGACTCTAG GGTGAGCTTC ATCAGTGCTT GCTTTGGNTC CAAGATGTAA
TGAGATTCTN CTTTCACGTC AACAATTGCC GCAAATNCTT TCACCTGAGT GGAGCTCGGA GCACCCAGTC TCTCTGCATA
TAACCAAAAC AAATTTGAAT CCAAAAGGTA GATGTTGAGA GTCTTGTTGG TTCTGCAGCT CAGGCCTGTG AAGTTTGTGC
TAGTCATGTC CACTTCTGGA AAGAGGATAC CTGTNCTCCT CAATGTGAGG GAACGGGAGC TTNGGGGCAT CAACCTCACA
TTTTCTTCTC AAGGGGA

SEQ ID NO:972: (Length of Sequence = 396 Nucleotides)
TTCCTTTACA TCAAATATCC TCAATGGAAG AGGGGATATT GCACACAAAT ATCATAAAAG CACTACATAT TACTTTCACT
GGAAACTAAT TTNCTACATT AGATATGACT GGATAGGATA GAAGTGATGC AGGATTATAA GACATAATAC CATACACAGC

TGCAGACTGA CACAAACACC ATTCAGAACA AGAGAGAGGA GTGTGAAGTG CTTCTCAGCT GGGCTCAAGA CCACTTCTTT
CCAGTGCTGG AAAGAGGGGC TGCATGCAGT GTAGGAAAAG CGTGTCTCTG AACTGCCACA GGGTGTTCTC GAAAGGGCAG
CCCGGTCTTG ATGCCACTTC TCCATGGCTC CTGTTTTTGG GGGAGCTCCA AACAAGTGCA GAGAAGCTGC CTATTT

SEQ ID NO:973: (Length of Sequence = 401 Nucleotides)
TTCTCAAACT TCCAGTTCTC TTCCTGGGCC AAGATCTGGT CCACCACTGC CGTGGCCTCC TTCCCCTGGC GGATGT TC
CCGCTCCTGA GCAGAGAAAC TTTTCTTCCC AGCAACTTCT TCATCTGATG GGAGGAGGGA ACTGAATAGC TTTCC GA
GGGAGATAAG AAAGAAGAGT GTGGTGTGAA CAGGGAGCTT TGAGCTGTGG AGTTGGGCTG GGCATGGAAA ATNCGGAGA
GAGTAGCAAG GAATGAGGGG CTTCAGAGAA CTCTNGGATC AGCCCTCCCA CACTCACTGC CCTTTAAGGT ATCTTTGGGG
AAAA AGGG GCTTCTATGA TGAGTCTGGC AGCTNCCCAC ACTGCATTCT CCTCCTGCAT TTTTTTACCA TGCACCAGGG
C

SEQ ID NO:974: (Length of Sequence = 3 Nucleotides)
TTTACAAATG AACCACTGAG CACCTCAGTA CTTAGCTCAT ACCTCATACC TTAGTTCCTT AGTACTTAGC CTTGTGCCAT
CTTGAATGAG ATGGAGTGAA GTGAAGCTCG AAGGAGTGAC AGAGACATAG TCCTTGCTCT CAAGGGGTCT TTAGCCTGGT
CTGGGGACA AGATTTCCTC ATCTACCTCT TGAAAGGTGG CAGGACAACT CCACACTGGA GTGTTCTCAC CAGCAGATAG
GTGCTGCGGG AGTGTGGCGC CACATTCTTT ATAGCCACAG GCTTTCGTGG GACTNCCCT GGGGTCCTTC CCTATTTGGC
TGGGTGGACC ATAAGCGGCA AGTGAATGTG GCAAACTTCA ATTCACAATT AA

SEQ ID NO:975: (Length of Sequence = 340 Nucleotides)
GACAACAGAA AAAGAAGTGG ACAGCTACCC TAGATTCTAG CTCACACATA ATTCAGCCAG ATAATCATCA TTTAAATAAT
ACCCCTTGAA ATTTTTCAGA CTTTTCACAG CTCTAAAAAC ACAACATCAG ACATAACATC ACACATTTGT TCCAAAGGAC
TAAAAATCAA AAGCAATTGC AAAGTATTGG GAATCACTTT TATGGCTTTC CTAAGGGACA GTCCCCATCT TTCCAAGGAG
TGTTTTTAAA GAAGCACTAA CTCTGGTAGG TTATCAAACT ATTTTTTNAT TCTAAATAAA TAAAAGACTA ACTGAAGGTC
TCAGGTGCAC ACTTATTTTT

SEQ ID NO:976: (Length of Sequence = 343 Nucleotides)
CTGTTCCCTA AATATTATTA AAATTTTAAA AATTAGACAT TTGGTCTAAA TTAGACAGGT AAGATACTAC TGTCCTTACT
AGATGCTTTA AAGTCATAAA CTGCTTCTAT GGCTTTTNAT AATTGTNCAA CTTGCTTGCT TTAGAGCCAT TGGATTCTAG
GTAAGGCCTA GAGACATTTG GAGTTAGCCA TGTCCCCTAG CTATGCTAGA AAGAGTCCGA CATTATCTGT GGTTCTGTCC
TGTATCCTAC ACTCTACACC TGATACATAA TTAAAATTAC TTACACTAAA AATAAAAATG GATGCATTTT TTAGGTAGGA
AGGGTATGGG AAATTATAGG TTT

SEQ ID NO:977: (Length of Sequence = 265 Nucleotides)
ATCTTTGTAA TATCAGTGCC TAGACTAAGC CTGGCGTATA ATAGGCACTC AGAGATTTGA AGAATAAATG ACTAAATGAC
TGTATCAAAT ACTTGCCCAT TGTTTGCTGT TTCTGANTTG TACAAGGCCA TCATGATAAT TGATGATCTT AATAATGTGA
GAATATGATT CTNTTACCTT AGTAAGAGAG CCATCAGTTT ATTGGATGAT AGTTATATGG AAAAAGAAGA AATGCTACTG
TGATAAATAT TTATAATTTT AAACA

SEQ ID NO:978: (Length of Sequence = 285 Nucleotides)
ATGGTGGGCT GCCCTGGCCG AGGTGGCCAA GATGGCACCT GTTTCCTGCC TCANAAGAAA AGGCACTGAC GCACTGACCC
TTTNAGGTTG TNTGGGNTGT GGTCAGTGCC CTCCTGCCTG AGGGTCAAGT CTNTTTCN GTCAACTTCA CCACACCTN

TTTAACCATT TTTTNTTCCC TTAAAAAAAA AAAACCCAAA AAACCAAATC CCAATAAATA TGTTATTTTT NTCCATCACA
ATATTGCTTT AGAAAAATAA GAGCCGTCAA GCAGCAATTT TTCCT

SEQ ID NO:979: (Length of Sequence = 316 Nucleotides)

GTGCGTNCAC ACTCTCCTCC TGCTCCCCAA ACTCCTCATC ATTGAAGCCG AAGTGGTCAA TGAAGGCAGA GGTCATGCGC
TGCATCTGGA AGTCCATGAA GGCCTGCTGC AGCACAGCCT CCTCAGGGAA GTTGAACTCC TTGAGCCGGT CGTCCTCATC
GTCACTGGAG GAGTGTAGGT GGTGGGTGTT CACCAGGTCC ACCATGTTCT TCTTGTTGGT CTCCGCCAGG GGCCCCGATA
CGAAGGCTTC CCACTGCTCC TGCTGCTCGC TGGGCAGCTC CTTCAGCAGC TTGCCGCAGC TGCTCTGCAA TTGGGG

SEQ ID NO:980: (Length of Sequence = 386 Nucleotides)

AAACTGGCTT GCCTTCATCA TCTCTGCAGG GNTCAGTAAA GATTAGAAAT GGATTATTTA CCTTGTTATA CAAATACACC
TCCTCCCTAC ACCCAAGANT TGAGAGGAAG ATGAGCTGTT CCTGTGTTAA CGCCTGANTC AATCCCATTA TCTGCATTTC
TGTGTGTGGT TAGCGCTCCA GCAGCCTAAG GCGGGAGCTG GAAATGACAG CCTTGGAGAC GAGGAAGGCT CCAGGGAGGA
CGGAGAGGAA CACCTGCTGA AGAATAAGAC GGGCGGCACC AGCCGGGCTG ATTTTGGGGA ACGGAAGGTA ACAGAGGGTG
ATGCTTCTAA TCGCTTTTAC AAGGTCTTGG AAAGACGGGA TNGCCTTAAC CAACTTGGGG TTTCTT

SEQ ID NO:981: (Length of Sequence = 322 Nucleotides)

GTTTATTAAT ATTTAAACAT ATTAAAATAA TACATGTNCA TAATGAAAAT GAAACATTAC AAATAAATAC ACAGGAAAGG
CAGTATTCCC CTTCCAGTTC CACTCTTGAA ATAACCAGTT AACAAGATGA TGAACATCTT TCCATGATGT TCTCCAAGAT
TCATATTATT TTTGCAATCA TACAATGGCA TATACAGCTC AGGTGCGGTG GCTCACGCAA GTAAATCCCA GCATTTTGGG
AGGCTGAGGC GGGTGGTTCA CCTGAGATCA AGAGTTCGAG GCCAGCCTGA CCAACATGAA GAAACCCTGT CTCTTACTAA
AA

SEQ ID NO:982: (Length of Sequence = 305 Nucleotides)

CCCAAGGCTG TAGTTCAGCA TCAACAGGGC AGGGAGCTTG GCAGGGCAAG GGCAGAGCTG GAGATCATGC CCAGTNTTCC
AGGTGCCCTC CCTCCCAATC AGCCTGGGGG GCACAGGACA GGGATGGAGA AGGGGCTCTC TCCATGGCTT GGGTAACATG
CCAAAGGCAG GTCATAGGGC AGACTCAGTG GGGGTGGGGG CCTGGCTAAC AAGCAATGGA GAGAACGGGG GCCATCCAGA
GAGGTTGGCA GAAGAGAGCC CCTGGGTCAA GAGAAAACTT TGGGGAAGAC AAGACACGGG AGAAG

SEQ ID NO:983: (Length of Sequence = 399 Nucleotides)

AGCCCTTGTT TTGTTTTTAA AAGCTGTCGT GTTACTGCTT AAAGTCTCCA AACTGTTATT GAGAACACTG ACCAGAGCCC
TGTCCATAGA CCAGTGTTTT TCCAAGTGCA GATTGCAACT CCTTTGCAGA GTAGGTTGTG GAGCCATTTN AGCTGACTAC
TCACCAGCTT TCTTCAAAAT GTAAATGGAA TAGGATAGAA AAATAATGAA AAATTGTAAA GTGAATTGGA TGCAAAAAGG
GTAAATATTG TNGTGTCAGA CTTTTTTGGG TGAGTGTGCA TGTGTTCACA TACTGGNTCA CATTATAACA TGTATTGCTC
ATTATGGGTT GTGGTCAGAA AAAATTCAGN AAACGCTGTC TCAGACTGTC CCCAAGTTGT ATTTGCTTAT AATGGGACT

SEQ ID NO:984: (Length of Sequence = 408 Nucleotides)

GTGGTATGAG GTATCAATGA AATACATTTA AGATGTACAT TGGTTTGTTT CAGAAAGGCG AGACAAGTCA AAGCGGGGAC
TTCCAGGCTA TAGGTAAATT TATACATTTC CTGGTTAAGA TTGGTTGAGT TTGTCTAAGG ACCTGGGATC AACAGAGAGG
AAATGTTTGG NTTAAGACAA GGATTGTGGA GACCAAAGTT TTACTACGCA GAGGATCCTC TTAGCTAGCA GGCATAAGAC
AGAAGAGGCT GTAAAATGTT TTCTTATGAG ACTGAAAAGG GTGCCTGACT CTTAATTGAT TATCTCCTGG NTCTGGAAAG

AAAAAAAAAA GGGAATGGCC AGGTGCGGTG GCTCAGGACG GGTCTGGTGG CTCACACCTG TAATCTTTCT TAAAACGTTA
TGAAGTTC

SEQ ID NO:985: (Length of Sequence = 439 Nucleotides)
TGGTATACTT TTGTNTTTTT TTCTACTTGT TAGTTGTATT AGTATCAAAT GGCATAATAA AGTTACTTTG TTTGCCATTT
CCCACTCATC TGAAAATCAC AAAAAGCATT TATTTCTAAG ATTTATATCC ACTGACCTTT TCCCCAAAGT TATTTTCCTG
TTACTTGTAT TTCATCTTTG CCCTTATTTC TTTAATATTT GTATTAGAAT TAGCTTGCTC TTGTTTCCTT CACGGCAAAT
GTGTTACATT GCCCACTGGG TGGCTTCTGC GGATGCCCCT ACCCACCCCT CGTCTGGAGC AGAGAAGTCC TGTTAGCCTA
GCAGCATAGT GGCTGCTGTC AGTGCGAGGA GTTGTGCTTC TCTAGCATGG TCTGTGATGT CATCTGGACA TAATTAATTA
GACTAATCCG AATAGAGGAC CAAGACAGCC CTGCCTGCG

SEQ ID NO:986: (Length of Sequence = 286 Nucleotides)
CGGCGACGAA CATGGAGA CCAGCTTG GAGCGCAAGT CCTCCTGCGG GAAGAAGTGT CGCGGCTCCA GGAGGAAGTT
CACCTTCTCC GGCAGATC AGATGTTG GCGAAGGACC TGGAGGAGTC GCAGGGCGGC AAGTCCTCTN AGGTCCTCTC
GGCCACCGAG CTCAGGGT CTGGCCCA GAAGGAGCAG GAGCTAGCCA GAGCCAAAGA AGCCTTNCAG GCCATGAAAG
CTGATCGGAA GCGCTTAJ CGAGAAGA CAGACCTGGT GAGCCA

SEQ ID NO:987: (Length of Sequence = 381 Nucleotides)
TCCAAAGGTT TTCATCTC TGGATAA ACAAAC TG GTACATCTAC ACAATGGAAT TTGGGA GATGAAACAG
AATGTNTGAG GG CCAC CATGTAT GGTC G GTCTGCCTCC CA NTCCA CAGGCA G TGTGCT
GGGTGAGGGG CTGGGAG GGCAGGAG CATC AC AAGGGTGGAA GC GAAGA CGACCAG T CAGGGT
GTNTCACATG GTACAACCAA GAGACTTGGC GTGC AGAA CCAAAGAAAC ACTCAGGACA CACGACAT CTGCAGGGAA
CCTGGGGGGT GGTGAGGAAA GTCGTGCACG GGTCGTTGGG GGGAGACTTG GAGGCCCCTC T

SEQ ID NO:988: (Length of Sequence = 381 Nucleotides)
GAATTAATAC CAATAGAAGG GCAATGCTTT TAGATTAAAA TGAAGGTGAC TTAAACAGCT TAAAGTTTAG TTTAAAAGTT
GTAGGTGATT AAAATAATTT GAAGGCGATC TTTTAAAAAG AGATTAANCC GAAGTGANTT AAAAGACCTT GAAATCCATG
ACGCAGGGAG AATTGCGTCA TTTAAAGCCT AGTTAACGCA TTTNCTAAAC GCAGACGAAA ATGGAAAGAT TAATTGGGAG
TGGTAGGATG AAACAATTTG GAGAAGATAG AAGTTTGAAG TGGAAAACTG GAAGACAGAA GTACGGGANG GCCTCCTTCA
TGTTTACAAT TTTAATTAAT TTTTTTTATT TTAGGNGTAA TTTCTTACCA AACATTACCC A

SEQ ID NO:989: (Length of Sequence = 432 Nucleotides)
GTCTTGG CTGCAACCT CTGCCTCCTG GGTTCAAGCG ATTCCCCTGC CTTAC CC CAAGTAGCTA AGAC 3
CATGCGC ATGCCTGGC TAATATATAT ATATATTTTT NGTAGTTTTA GTAGA ACGG GGTTTCACCA CGTT 3
GCTGGTCTCG AACTCCAGAC CTCAAATGAT CTGCCCGCCT TGGCTTCCCA AAGTGCTGGG ATTACAGGCA TTAGCCACTG
TGCCTGGCCA ACAATATATA TTAAATAAGC ACACATACAA CAAAAGTAGG TGTTGGTAAG CTTACAAAAA TGTGACCAGT
AGCTTGCTGA AACCTAACTT TTTATTTGTT CATGGAACTT TCTAGACCGT AACTACACTG AATAATGAGA ATCTGCTGTA
ATCTTTTTTA GGTGCTGTAG ATGAGCCATT GG

SEQ ID NO:990: (Length of Sequence = 421 Nucleotides)
GGCAGCCCTA CTTTTNCTTC TCATTAGCAG TTTCAGTCCA CAGCTGGGGT ATTAAATTTG TNAGTCATTG AAATTAATCC
CTGACTGAAT TGGAAAGGAA TTGTATTTGC AGTATTTGGA TTTATTTATT TTNCAGGTAT GGAATTCTGG TGATTTTGAA

AACATGAATG ATACCATTTT GCAGCAGCAT TGTAGATTTG TAGTATTTTA GATTGGTATC ACAGTGCACC TGAAAAGTAA
GTTTCATTTT ACTTTTTTNA TTGTTGTTGA GACGGAGCTC ACTTTTGTCA CCCAGGCTGG AGTGCAGTGG TGTGATCTTG
GCTCATGGCA GCCTCTGCCT CGCTGGGTTC AAGCGATTCT CCTGCCTCAG CCTCCCGAGT AGCTAGGACT ATAGATGCTC
GCCACCATGC CCAGCTAATT T

SEQ ID NO:991:   (Length of Sequence = 351 Nucleotides)
CCTCACTCCC CGCGCTGGCA CCTCAGGTTT ACAAGAAGAA CTAGGAAATA ATGCCGGCCA CGCGACCCCT GGAGAGGGGG
CCGGCTAGAA CAGCGGTTCCT AAGAATCCGC GCCACAGCAG GTCCCGCGAT GTTGGGGCCT TAGTGTCATC GAGCTAGCCC
CAATCCTCAA CCCGATCTTC AACTTCTGGT AGTCCTAACA GAAGTCTCGT ATTGAACCAG CCACTNTGGC CAGGGAGAAG
TAATCCTCTG ATAGTTGAGG TTCTTTNCTC TCCTCTGGAG CAGATAGTGG TGTCTCCTCC CCACAAAGCT CATGTTCTGC
TGGAAGAAAT GGAGATGGCG CCCTGGAAGG C

SEQ ID NO:992:   (Length of Sequence = 406 Nucleotides)
CCAGAAAAAA TGGCCACTAC TACCACTTGG CTCAGAAATG CTAGTCTTTA TTTNCTGAAA TGTTTTATAT AGAAAAAATT
TAATAATAAA TAGACATTCT TATATATTTC CTTACCATTT NAGATTGGGT TAAAAAGTAT GGNGACTTCC GGCCGGGTGC
GGTGATTCAA GCCTGCAATC CCAGCACTTT GGGAGGCCGA GGCAGACAGA TCATGAGGTC GGGATCTGTG GCTAACACAG
TGAAACCCCG TCTCTATTAA AANTACAAAA GGAATTCCTG CAGCCCGGGG GATCCACTAG TTCTAGAGCG GCCGCCACCG
CGGTGGAGCT CCAGCTTTTG TTCCCTTTAA GTGAGGGGTT AATTTCGAGC TTGGCGTAAA TCATGGTCAT AGCTGTTTCC
CGTGTG

SEQ ID NO:993:   (Length of Sequence = 381 Nucleotides)
ATGGAAGGAC CGTGCCGGGA CCCCAACGAG GCANTGCGGG AGTTTGCCAA GGAAATTGAC ATCTCCTGTG TCAAAATTGA
GCAGGTGATC GGAGCAGGGG AGTTNGCGA GGTCTGCAGT GGCCACCTGA AGCTGCCAGG CAAGAGAGAG ATCTTTNTGG
CCATCAAGAC GCTCAAGTCG GGCTACACGG AGAAGCAGCG CCGGGACTTC CTGAGCGAAG CTCCATCATG GGCCAGTTCG
ACCATCCCAA CGTCATCCAC CTGGAGGGTG TCGTGACCAA GAGCACACCT GTNATGATCA TCACCGAGTT CATTGAGAAT
GGCTNCCTGG GACTCCCTTT CTTCCGGCAA AACGATGGGC AGTTTCACAG TTCATCCAGC T

SEQ ID NO:994:   (Length of Sequence = 384 Nucleotides)
GTTCTTCCAG TTCGGAAGGA TAAAATCAAA TTCCCACTTT CTGGGGTGGA TGCCCAAAAC CTTCACAACT CAAGTGTTCT
CCAAGTGCAA ATGTCAAAAT GGGAGGAGGA AAGGGTTTAA AAATTAGAGA AAACTGTATG CACTTACGGA CTTAAAAAATC
CGAAAAACAT AGTAAAAAGA CAAAAAAACA TAGCATTATG CTCTGAAATC ACAACCAAAG CCAAAATAAA AGGGACATTT
TTCACCTAAA CTACCTAGAG GGATTTTTTG TTTAGTTTTT CCTTTTTCTT TTTTTTTTCA TTTTCCAGTT AAGTCCTATG
TCTTTNGTGA AATTCCAATA CTTAAACTGC AAGTCTGCAA TCGTCTCTGA AGTCAGTGAA ATTA

SEQ ID NO:995:   (Length of Sequence = 386 Nucleotides)
ATAACTTTAA CAGAGGATTG GAATAATGAG GGATTGGCAA GGAAGCAGTA AAAGGGAACA CTAAAGTATA GAATAATAGC
AAACAGAAGG AGCACCCTAC CCCTAGGGCT GAGAAAGAGC ACAGGGAAGT CCTTTTTTNT TCCTGGACAG AGATCCAGAC
GAGCTGGAGA AAGAAGTTGC TATGGTACTG CATCANTGGA ACTTGCTGGA AATCCACCCT CAAGGGCACT AGGAAAACCT
GTTCAGGGGA GCTGTGGAGG GAAATGGGGT TGGCAGGAAA GCTGCTGGGC GCGGGGTGCT TCAGACTGCA GTGTATTGCA
GGAGCTTGGG CACTGGGGAA GCTGTGTGCA CTGCAGGATC CTGCTGAGCC AGCACATCAG ATCAGG

SEQ ID NO:996: (Length of Sequence = 307 Nucleotides)
GTGCGCCAAC TGCAAGAAGG AGGCCATCTT TTACTGCTGT TGGAACACCA GCTACTGTNA CTACCCCTGC CAGCAAGCCC
ACTGGCCTGA GCACATGAAG TCCTGCACCC AGTCAGCTAC TGCTCCTCAG CAGGAAGCGG ATGCTGAGGT GAACACAGAA
ACACTAAATA AGTCCTCCCA GGGGAGCTCC TCGAGCACAC AATCAGCACC TTCAGAAACG GCCAGCGCCT CCAAAGAGAA
GGAGACGTCA GCTGAGAAAA GCAAGGAGAG TGGCTCGACC CTTGACCTTT CTGGCTCCAG AGAGACG

SEQ ID NO:997: (Length of Sequence = 402 Nucleotides)
TCTGCACCTA ATACTGAGGG TGTGAAATCT TCCTCAGTAA TGCCCAGCCC TAGTACCACA TTAGCGCGGC AAGGCAGTCT
GGAGTCACCG TCGTCCGGTA CGNGCAGCAT GGGCAGTGCT GGTGGGCTAA GCGGCANAGC AGCCCTCTCT TCAATAAACC
CTCAGACTTA ACTACAGATG TTATAAGCTT AAGTCACTCG TTGGCCTCCA GCCCAGCATC GGTTCACTCT TTCACATCAG
GTGGTCTCGT GTGGGCTGCC AATATGAGCA GTTCCTCTGC AGGCAGCAAG GATACTCCGA GCTACCAGTC CATGACTAGC
CTCCACACGA GCTTCTGAGT CCATTGACCT CCCCCTCAGC CATCATGGCT CCTTTGTNTT GGACTGACCA CAGGCACTCA
CG

SEQ ID NO:998: (Length of Sequence = 304 Nucleotides)
GCAGTTCTGT GATTGTNAAG ACTCACAACC ATGTGGAGAG GCCGAATCAC GCAGGAGAGC CACGCATTGG AGTACCCTGG
CTCCCAGCCC CTTCCCCACC CCGTNTTGAG CCAGAGAGCT ACAAGCAGGA ATCCCAGTGC AGCTGCAAAT NATGGCCATC
GAGGAAGTCT GTGGAGAAGA GGCTGGGGGC TGTGGTGCTG AGGGGGGCTA GGCTCAGCAC GGGACCACCT GACGACAGCT
CCCAGCCAGT CCATGCTGTC CAGGTGGCCA TCAAGCCAGG TTCCAGGGCC CATGGGTGCT TGCT

SEQ ID NO:999: (Length of Sequence = 321 Nucleotides)
AGAATGGTTT TGGAGCTCGA NATCTTCATG GGTTAGACTT GCTGGTCAGA CCCAGGAGCA CCTGTGGCTC ACACCTTCTG
TNCCCCTCCT GGCCTGTGCA GAATGTAAAC AGCAGACTCA TACTCAATGG GCACTACAGG CCTTATCAGA CGTTTTATAC
AAGCCTGGAT TGCTTAGTAG GGGAATAAGG CATTCTCTGA GGGGGCTTTC CACTTAGATT GAGAATTTTA TTTGAAAAGA
ATCTGGTTTA AATGGCATTG TGGTCCGAGG TAGCTGCTCT CCCCACTGAG AGCTGAGCCG AAATATAAGA ATAATATATT
T

SEQ ID NO:1000: (Length of Sequence = 253 Nucleotides)
CCCTAGAGGA TTTGCCGTCT TTNATCTGCC AGTGACCTGA ACCACGCAGA TTTTTCAAGC AGGAGGGCCG ATTGGGCAAC
CACAGCTCCC GTGCTCTCTC TTTGCAGTGC GCGGCTTTCC CTCCGAGAAG GACTTTGAGG ACTACATTAG GTACGACAAC
TGCTCGTCCA GCGTGCTGGC CGCCGTGGTC TTCGAGCACC CCTTCAACCA CAGCAAGGAG CCCCTGCCGN TGGCGGTGAG
ACGTGCGGCC GGG

SEQ ID NO:1001: (Length of Sequence = 164 Nucleotides)
AAACAGAGTA CTGGGATGTC ACTGTTGGAA AGTGCTCACA ATTTCTCATC TAAGCCGAAG TTGTCTGTNC TCCTTCCTAC
CTTAACAGTT TCTCACTGCC TGAAGGCAGC TGCCAAAACC CCTCTAAGCA AGCAGCACTC TTACCCACCA AAATCTATGA
CCTC

SEQ ID NO:1002: (Length of Sequence = 262 Nucleotides)
ATATCTTCCT GAGGGAAAGT GGTAGAGTTA AAGAGGGCAT AGAGAGCGCA CTCATGCATT TACAACTCAG AATTTTAAAA
AAAGTTTACA TTTTGTCATT TGTACTTCAG ATGAATTTNC TTATTAAAAG AAATAAGGCC ACAGAGGTAA ACTTAAGTCT

CCTGTTTCCC AATGCCTACC CTCCTTCTTC TCCTTTCCTC TTTCTCTTTC CTAGAGAAAT CCTGCCTTCC TTTCCCTTCC
CAGAGGCAAC TGGCATTATA AT

SEQ ID NO:1003: (Length of Sequence = 267 Nucleotides)
GGAAAGAGGA GCAGGTCTGG AGGTTTGTGG AACCCAGTCC CCTGCAGAAT CTGTAAAACC TAATAAATCA TGGTTGTGGC
CATTCTCACG GTGGTGATTG TAATTAGACG ACCCCCGGGA AGCCCAGACA CTCGGGGCCT GGAGTTCCTC CCCCTGCCTG
ACCTAGAAGC AGAACCGTTT TCAGCGNTCT GCCCTGTTGG CTTTAAGGCT TTGTCTTAAT TTAAGGAAAA AGATCCTCCC
GGGTTTTATT TCTCTCTTTC TTGAGTG

SEQ ID NO:1004: (Length of Sequence = 277 Nucleotides)
GGCTCCTAAA CACTTTCTTC CTGAGATGTT AAGCAAAGTA ATCATCCTGT CACTAGATAG AAGCGATGAA GATAAAGAAA
AAGCAAGTNC TTTGATCAGT TTACTCAAAC AGGAAGGGAT AGCCACAAGT GACAACTTCA TGCAGGCTTT CCTGAATGTN
TTGGACCAGT GTCCCAAACT GGAGGTTGAC ATCCCTTTGG TGAAATCCTA TTTNGCACAG TTTGCAGCTC GTGCCATCAT
TTCAGAGCTN GGTGAGCATT TCAGAACTAG CTCAACC

SEQ ID NO:1005: (Length of Sequence = 271 Nucleotides) .
GTTAGGTCAT TCACACATGG TGGAGACAGG AATCTACAGA CTAGGGATCA GCCCCAAGGC TATGATCTTT GTNCTGCGCC
GCTCTACCCC TGAGCAGACG GGCCAGAGGT CCAGAGAGGG CTGTGCTGGC AGAGTTCATA CTTTGATAAC TGAACCCTAG
AGTAAGCCTG CCCTGGGAAA TNCCAGCTCA AGGGACTGAC AGGCATAATG CTCTTTGGGA GAGAAATGCC ACATCTGCAG
CGACACGNAT CCTTAACACT GTCCCAGGAC T

SEQ ID NO:1006: (Length of Sequence = 336 Nucleotides)
TATTTTNCAG ATATGGATAA AAATTGCTTA GGAGAGTAAA GAGAGACAAA GTTGAAAGCA GGTTTATAGT AGGTGTTGTT
TTAGTGTTGA TCCCTTTTTG CTCCAATAAT CAAAGTGATA AATATTGAAA ATTGATTCAT GCAGCATTAC TTACTCCATT
CTAATTTTNA TATATGTCAA AAGTGCCATC TCCCAAACTG TGCTATCCCC TTCAGGAGAA GAGACTCTGC TGAAGTTTAT
AAGGTTGACA TATTGCCAGC TTCAATAATG TAAAGATGAA GTGTATACTG GAATTCTTAA TGCAAATAAC AACTCTTTTG
GGAAGTAACC CCGTTT

SEQ ID NO:1007: (Length of Sequence = 355 Nucleotides)
GGCAAGAAGG CGTCGGCGGC GCANTGCGGA TCCAGAAGGA CATAAACGGC AGCTTGTTCC TCCAGGCTGG TGGGCTTNGT
GCCCTCGGCC TTGGGATGCT TATCACAGTC CTTTGGGACC AGAACACTGG ATATCAGTNC AGCCTCTGGG CCAGCTTCAG
AGGCTGTTAG AGCATCATTG CTGCTGTGGC TGATGCTTCC TTTCCTCAGT AAATCACAAA AGTCGTGTTG GCCATCCAGG
TTACCGAGTG ACTTAATTTC CAGAAAATTT AATATTGAGG TCATTATTGT ATGCATTTTC ACTGTTGCCA TTTTTGTATC
CTCGTAGGTA GGTCTATGAA GTACCACTGG GGTCA

SEQ ID NO:1008: (Length of Sequence = 269 Nucleotides)
ATATTTAAAG AGAGCTTTGG TCAGTAAAAG TATAAAANCT GAGCTTTGGT AAGGGTACAG TTTATAAGGC CTAGAGAACA
TCAAAACATT CATTTCATAT TGAATGTATA AATACCCACA TGTGAGAGCA CATGTTGATT CAGTTTGAGT ATGTCTGCCT
TGTGGNTCTT TAAAACCTTT CCAGCCTGGG TTATTTTCCC AAGCTTTCTT TATAATTACA CCAGGGAAAG AGTTACCNGG
NATTAATCAA AACCAGACAG TGGACAATG

SEQ ID NO:1009: (Length of Sequence = 295 Nucleotides) .

272

GATAGCAGCA ACATACGTTT GTTTATTCAT TTGCTTACTT ACAACAAACG TTTATTCATT ATTTATAATG CAACAAGCAT
TAACCTAGGT GCTAAGGAGA GAAAAATGAG TAAGACACAG TTTCTTTCCT CAAGGAAATC ACAGTCTGTT GGCAGAGATA
AGTAGTAATG GTGCCTAATA TAGGTAACAC TTGCTACCTG CTCCAAGAAC AAAGTTAAGC AAGTGATTAA GTTAAGCAAT
GCTTAGAGGT AGAGGATGTA AGANTGGCCT TAAAAAATGT GTCTTCTGAG ATGAG

SEQ ID NO:1010: (Length of Sequence = 356 Nucleotides)
GTATTTCCTC ATTTGTGCAA ATNAAATAGA AAAGGTAAAT NAGAAACTCA AGAGGTTTGT TACCTACTGT CAATGGAGTG
GGGAAAATGG GTGGAAAGAA GAAGGCAATA AGAAAAGAGT AACAGGAAAC GACAGTNGAC ACTTCTGAGT ATACCTTGTG
GAATCTCTTT CACTCTTAGA ATCATAGTAA TAGANGANGA AAAAAGAACT CCCCAAACTG AAAAGGATAG ACCACTGGAA
CAACTTCAAG TGGTCTAATG TAGAAGCAAA TGGAGTCCCT CAAGGAAAGA AGAGAGGTTT TGAAAAGAAA AAAACATTTG
AAGAGTTAAC AGCGAAACAC TTTCCAAACT TAAAGG

SEQ ID NO:1011: (Length of Sequence = 315 Nucleotides)
AGAGAGACAC AACTGTAATA GAGACACAGA GGAGTGGCAC ACAGAGACCA CCTCCCAGCT GGAGACAGTC AGGAAGGACT
GAGGGAGAGG GGACAGCCAG GGCTCCACAC CCAGGCAAGA ATGGGGGAGG GCCTGTGGAA CAGAGAAGTC ATCAACACAC
ACAGTTCAAA GTCTACCCTA GGCTAGGAGG GGGAGCAGGA AGAAGGGGCA GGGACGCAGG GGCCCGGCCT GCNAGCTCCC
TGTTGGCCTC TNCTGCCCCC TGCTGGCTCC CNCTGCGGTG CTCAGGCAGG AAGAGAGGAG GCTGCTGTTT TTAGG

SEQ ID NO:1012: (Length of Sequence = 272 Nucleotides)
CCCAACTCTA TAGCCCTAGT CAACCACTAA TCTATACCCT GTNCTCTATA GATTTGCCTA GTCTAGAAAT TTTGTATAAA
TGAAATGCAT GCACTTGAAC TTTTTGTATC TGGCTTGCTT TTCCATTTAG CATAAAGTTT TAAAGGTCCN CATATGTTGC
TGCATGTGTG CATTTCTTTT TGTGNACTGC NATATTACAT TGTATGGGAT ATACCATTTT GCCATATTTN GTTAAATCCA
TTCATCCAGT TGGTGGGACA GCAGGTTATT TC

SEQ ID NO:1013: (Length of Sequence = 252 Nucleotides)
TTTGTTAGTG TTTTCTACAC TACACTCAAG TTCATTCAGC ATGTCATTTC AACAACATGT GACGTGTCAA CTTCAAAAAT
TAAACAAACC AGCNAAACAC AACACTTGNC ACTACAAAGG AACTTGTTTT ATTCTCAACC TTCTATGATA GCTAAACTTC
TCTGNAATTT NGTTCCCCCA CACATCCCAC ATCTGGGCTC AATTTCCAGC TTCTGTTNTT CTGTTTTATT TCATCCAAAA
TGTTATTTTA AT

SEQ ID NO:1014: (Length of Sequence = 210 Nucleotides)
GGGATACACT GACAGTAATG TGAAGCGCCA CACTTGCAGA TTTCAGGCCC AGCAGGTCCT GGNCAAGTGC CATTCCACCC
GGAACTTTTA ACCCAAGCGG TGGGGAAGGA AAGCCAAAAC TCCAAGCTGG CACTTTTTTG GGGTTCTGGG CCATGACACT
TCTTAGGCCT TCTGCTGCTG AACTTTTACA GGGACAAAAG GTACCCCACG

SEQ ID NO:1015: (Length of Sequence = 222 Nucleotides)
GGNAAGAAAG GTTTCTCAGA GGACAGCCTT ATTAATTTCT CAGAGGATGA ATTTGNACAA TGGCAGCACG TTGCAGTCAC
AACTTCTTAA GGTGCTTCAG AGGCTGATTG TTCCTAGNAA CACAGAGTAA TGAACTATTC CTGAAGAGCA ATGAAACAGG
TTTTGAATTT TNTTGTATCT GNACTTAGNA ACACATCAGT CCCCATCAAC CCATGGACTT CT

SEQ ID NO:1016: (Length of Sequence = 236 Nucleotides)

GAATAAACTG GTTTGGAACC AGAAAAGTAC AAAAAAGAAC AGCTAGAGGT ACATAGACAC AGGACAATTA ATCAATTTGG
GAAAAAAAAA AGNACTTACT TTCTCCATTG CTGCCTGAAT TGTTTCCCAA TCTGCCTTGA AATGCCACTT TTGGCCAATA
TTTTTNCAAA AATTTGACCA AAAAAGAAAA AGCACTNAAT TTCCCTTTTT ATACAAAAAT GNTTAAGTAG GCAAGT

<u>SEQ ID NO:1017:</u> (Length of Sequence = 259 Nucleotides)
GCTTCCCTAG ATTTTTCCCT AATTTTGGAC CTATGTGGAC AAAAAAAAAA ATCTAGTCCA AGCTTTCACT ACCTTCTTTT
TTTATTCGCC TTCTGCTTCT GNGTTCCACA TGGGAACTTG AAGTGGTTTA TAAGAATGCC ATGCTGTGCA AATAGTAAAA
ATGAATTTNC TGATTTTTAA AAAAGCCCTC AGGAACGGCA TATGTATANG GTATGTATAT GAAAAAANGT GTTNAGGAAT
GCAGGAGGGA AACTAGGCG

<u>SEQ ID NO:1018:</u> (Length of Sequence = 354 Nucleotides)
CTGGAGGAGG AGAAGAAGCA TCTGGAGTTT ATGAATCAGC TAAAAAAATA TGATGACGAC ATTTCCCCAT CCGAGGACAA
AGACACTGAT TCTACCAAAG AGCCTCTGGA TGACCTTTTC CCCAATGATG AAGACGACCC AGGGCAAGGA ATCCAGCAGC
AGCACAGCAG TGCAGCCGCG GCTNCCCAGC AGGGCGGCTA CGAGATCCCC CGCGGCTGC GGACGCTCCA CAACCTGGTG
ATCCAGTACG NCTCGCAGGG GCGCTACGAG GTAGCTGTGC CCCTNTNCAA GCAGGCCCTG GAGGACCTGG AGAAGACTTC
AGGACACGAC CCACCCGGAC GTGGCCACCA TGCT

<u>SEQ ID NO:1019:</u> (Length of Sequence = 393 Nucleotides)
GATGACCGAT TTGGCCATGG AAGACTTATC TTCATGGCAC AGAGAGNYTG TSCAGAGATG AGTCAGACTC AGGGGCTGAG
TAACAGCAGA GCAGAGAGTG CAGAAGTGGA CGCTCAGAAG CGAGTTTATG TGTGTYTTTY CCTCTATCTG CTGGCTGTGG
CTGGTACTGC AACCTATCCC AAAGTAACAG CCTAGTCAAT GAGGTATATG CTTCAGATCT GGCAAACTCT CTCTGCACAT
AAAACTGTTA TTCTTAGTTC TCTGAAAGAC CCCCACATCT TTGAAGTGTA AACTAAGAGC TACATTTTCC CTTTTACTAC
ATCTCCCTTA AAAGGAAAGC ACTACAAGAG CTTTAAAATA GCAAGCTTCC CTATTCTAAG GGGAAANAGT CTT

<u>SEQ ID NO:1020:</u> (Length of Sequence = 403 Nucleotides)
CTGAGGAAGA GAGGTGAAGT GGCATCTACC CAAAACACCT GTGTACTGGT TAATAAGGTC GGTAGTTCCC ATTAATGAGC
TTGATGAAGG ATGGCACCTG ACAGGGCCTT AAATGANCTG ATGGAGTGAA TGTNACCAGT GTGAATTAAA TTTNCTTTAT
ATATAATAAA TAGCTGTGTGCT TACACATTTT CAGATTTNCT TTGTCAGCTA TGGACATGGA ACAGCGGGAC TATGATTCTA
GAACAGCACT CCATGTAGCT GCTGCAGAGG GTAATACAGG AACTACTCCT ATCTATTTCC TTTCCAGATT TAATTTCTAC
TTAGTACTAA AATCTGCTCT TTTTTTGGGG GTGGGACGGT ATAGGTCATG TTGAAGTTGT TAAATTTTTT NCTGGAAGCC
TGC

<u>SEQ ID NO:1021:</u> (Length of Sequence = 452 Nucleotides)
ATCGCAACCT GGCAGGGGTG TGGGGTTTGC TGGGGGCCTC TGTGGGGCCA TGATCTGAGG AGGGTATGTG GGGGGCGGGA
GCTCAGCACA TTCCATGGCC TAGAGGGGCC ACACAGAGGC CCCAGTGGGA CCCATGGCGT GGAGGCAGGT ATGGGGAGTT
KTGGGGAGAT CCCAGGGTGG TCTGGGGCCT GGAACCGGCC ATTKGGAGGC CCCAGCAGTT TCAKTGCCCA GGGCCTCCCT
GCAGAGCCAT GCATGGCAGA AGAAGTGTGT AGCATGAGCT GGTACACGCC CATGCCCATC AAGAAAGGCA GTGTGGTCAT
GCGTKTGGAC ATCAGCAGCA ATGGCCTGGG GACCTTCATT CCAGATAAAA GGTTCCAGAT GATATCAACG GCTTCCTGAA
GAGAGACCCG GGCAATAACA TCCATTCANT TGGGAGAGGA GGTCAGGCAT NT

<u>SEQ ID NO:1022:</u> (Length of Sequence = 413 Nucleotides)

AGCAACAGAA GAAAGGGCCA CATATATGCA AATGCCTGGT CACTATATCT GGCCCTGAAG AAGGAAGGAG TTTGCAGGGC
TCAGGAGACT GGAAATTTTT NCCAGGAGCT AGGAACGAGG GGTTGGGAGA CGTTGGTCAA AGGGTACAAA GTCCCAGTTA
TGCAGGATGA ATAAGTTCTG AAGACCTAAC ATACAGCCCA GTGACCATAG TGAATAACAC TGAATGANCA GTATACTCGA
AATTTGCTAA CAGAAGAGAT CTTAAGTGTT CTCATAACAC ACAAAACATA GCAACTGTAT GAGGTGATGG GTATATTAAT
TAGCCTGACT GTGGTTATAC ATTTTATCAA AATGTCACAC TGTGGCTGAG TNCAGAGGCT CATACCTATA ATCCCCANCA
TTTTTGGGGA GCT

SEQ ID NO:1023:   (Length of Sequence = 379 Nucleotides)
TCAAGTCTCA AAACTTTAAA AGACAGTAGA TATTTGTGGT TTTCTAGCTA AATGAGGGCC AAGATTGGNC TTTTTCAACT
AAATTGAATC ATGTAGTATA TCTGATTTCA TAGCTTTCTG GGGGAAAAGG GAGGGATTTGA ATTAGCAGCA GTGCAGGTCA
GGAGCAGTAA AGAAGACAGT AGGAGGAGTC CAACTACAGA TGTGAATGAN CAGCCTCAGA GGAACACATG AGAAGGTGAC
CTGCTGTTTA TCAGGAAGGC GGGGCTTTCT CTCTAAGATA CAAACCAAAT AGGAATCGTC AAATAGTTCA AATTATCCGG
GGGAAAAAGC CTGAGCAATG ATCCCTCTGG AAAACAAAGC AGTTCTCAGG CAGCACCTT

SEQ ID NO:1024:   (Length of Sequence = 320 Nucleotides)
AGTCTACAGG AACAAAGAAA TCTAAGATGG CTGCTCAGCC TTGAAATGTA CATGTTTTGC AGCAAAGTTG TTGAAGAACC
TTCCGTTGGC ACAGATTGTC CTTTTTCACA AGCATACAGA AGCCTCCTTC CGCCCAGGNC TCTTCCGTTG CATCCTTGCA
AATGGCTCCC ATTTGACACA TTCCTAAGTC TAAGAGATAC CCACTAGGGC AGCTTGTACA GTTCTTGAAT CCTGGGCCAT
TGCACGTCAA ACAACTGATA TCACATTTTT TTGCAGGATT TGTATCCATT CTCTGAAGAG TGGTCAAAGT AATAGCTGAT

SEQ ID NO:1025:   (Length of Sequence = 368 Nucleotides)
TATTTAATCA TTCTTTTCTT TGCCTGAAGA CTTAAAACTA AGAAGATTAT TCGAATGGTG AATTAACTTG TTGAAGAGAC
TATTCCAAAG GGATAGAATG AGACTAATTY CTGACTATGT TTTGCTAGTG ATGGGTGGAT GGGAACAAAC ATTACAAGAA
ATAGCATAAT GAATGTAGAA AATATTTCAG TTTGGAGATG TGCATGANTT AGTTTCCTAG GTTTGCCACA ACAAAGCATC
CCAAACTGGT GGCTTAAAAA ACAGAAATTT GTTTCATGGT TCTTGAGCCT AGAAGGTCAA AATCAAGGTG TTGGCAGGAC
CATGCTCTCT CTGAAACTCT AAGGGAGAAG CGTTCTTTGT TTCTNCCT

SEQ ID NO:1026:   (Length of Sequence = 379 Nucleotides)
GGTGCAGGTG CATACAGGAA GGACCATGTG GGCTCAGAGC AAGGGGGCGG CCATCTCCTA GCCAAGGAGG GAGGGCTCCA
GGGACCCCAA TCCTGCTGGC ACCTAGGCCT TGANCTTCCA GCCTCCAGAC TGGGAGAAAA TAACGTCTCA TTGTTAAAGC
CCCCAGCAAA TGANTACAGA ACCTAGGAAG GGGCAATGAA TGANTGATAG GTGGAAGGGC TAAGAAGAAA AGAGGAGGGA
GAGGAAAGAG ACGTGCTCAG ATCTGTCTCT NCTGGACATC CGATCCCAGG CTGTCTCTTC AGTGGGNCCA AGTCCAACTA
GCAGTCAGCT CAGAAATAAT CCCTNAGGCA TCGAAGCTTT CACAAAGGAG GNCACAAAA

SEQ ID NO:1027:   (Length of Sequence = 411 Nucleotides)
GCCCTTGGCA CCTAGAAGCA GCCAGGAGGG AAGTACTGAC CATTTAAAAG TGGCAGATCT CCGGGCCCCA TTTCTGCAGC
CTTCATTCTG CAACTCCAGG GAGGGTATTT TTNATTTGTG GGTTCAAAAA ATCTGTATAT ACAGTCTATG TGTTTAGAAT
TTGTGTTGTA AGTAAACTAC AGCTTTGAGT TGGAAAGAAG TCACGGGTTG TAAAACCATT TGGATTTTTT TAAAACAAAA
GTATTAATAA TCTGGAAGAC AGTNTTGCCC AGGTCAGGAG TGTTTTCTTG GTGGTTCCAG CCCCCATCAA TTGAACTGTT
TCTGGGCTCA GTCAGACACA GACATTCATC TGTGTCTGAC CAAATCAGGG GCTTTCCCAC CTGTGGGGGA GGGCACAGTT
AGGATGTTTT T

AGTGGCTTAC AAAACACAAA TTTATTATCT TACCATTCTG TGAGTCAAAA TTCCAAAATA GGTGTCACTA GGCTAAAATG
AAGGACTGCA TTTNTNCCTG CAGGCTCCAG GAGAGATCTA TGTCTTACTC TTTNCGGCTT CTAAAGGCTG CCCACATTCC
TCGACTAGTG GCGTCCCTCC TTCATCTCTA AACCCAGCAA CAACAGGTTG AGTCCTCATG TCACATCTTT NTTACCTTTC
TGTCATCTCA TCTCGCTGAC TGCTGCTGGG AAAAATTCTC CACTTTTAAG GGCTATCATG ATTAGACTAT GCCCACTAGA
TAATACAAGA TCTCAGATCC CTTAACTTCC ATCACATCTG CAAAAGTCGC TT

SEQ ID NO:1034: (Length of Sequence = 320 Nucleotides)
CGCGCCGCGA CGGACGCCCT CAACCGGCAA ATCCGCGAGG AGGTGGCGAG TGCAGTGAGC AGCTCCTACA GGAATGANTT
CAGGGCATGG ACGGACATCA AGCCTGTNAA ACCAATAAAG GCCAAGCCCC AGTACAAGCC CCCAGATGAT AAGATGGTTC
ATGAGACCAG CTACAGTGCT CAGTTCAAAG GAGAGGCCAG CAAGCCAACA ACAGCTGACA ATAAGGTCAT TGATCGCAGA
AGAWTACGCA GCCTCTACAG CGAACCCTTC AAGGAACCCC CAAAGGTGGA AAAACCTAGT KTTCAGAGTT TCAAACCAAA

SEQ ID NO:1035: (Length of Sequence = 375 Nucleotides)
TTTTTTTTTT TCAGTGGAAA ATAACTTTNA TTGAGACCCC ACCAACTGCA AAANCTGTNC CTGGCATTAA GCTCCTTCTN
CCTTTGCAAT TCGGTCTTTC TTCAGTGGTC CCATGAATGC TTTCTNCTCC TCCATGGTCT GGAAGCGGCC ATGGCCAAAC
TTGGAGGTGG TGTCAATGAA CTTAAGGTCA ATCTTCTCCA GAGCCCGCCG CTTCGTCTGC ACCAGCAAGG ACTTGCGGAG
GGTGAGCACC CGCTTCTTGG TTCCCACCAC ACAGCCTTTC AGCATGACAA AGTCATTGGT CACTTCACCA TAGTGGACAA
AGCCACCCAG AGGGTTGATG CTCTTGTMAG ATAGGTCATA GTCAGTGGAG GCATT

SEQ ID NO:1036: (Length of Sequence = 304 Nucleotides)
CTCTATGTCT TCTTCTTTTT GCTTCTCCTC AAGTAGAG : TGACTTTTTT GAAGGTTAGC TTCTTCTAAG AGTTGCATGC
TATTNCTGGC TCTTACAATA GCCTCATATC TCTNATTTNC TAATTCATTG CACTTTGCTT GTAGCTCTCT GGTCTGTTTT
TCCAGATGTG TATTTNCGGN TCTNAATTGG TTGGCTTCTT GGATTGTCAC ACATAATCTT ATTTCTAATT GTTTTATACT
AGACTGTAAC TGCTGTAAAC GGCTATCTGA TGCTTCCTCT CTTNCATGGG CAGACACCAC ATCC

SEQ ID NO:1037: (Length of Sequence = 341 Nucleotides)
CTATGAGGAC CAGCAATTAG ATTTTATAGC AGTACTTCCC ATTAAAGTGA ATAACCAAAA TCACTTTAAG GTCAAGATCT
TAGTCAATAC ATTATGTAAA ANCATATACA ACAGACAATA CACCAGAAAC TAAATCTTTT GCAACCTTTT AAACTTATGA
TGAAAAACAT TAATGTCAGC TCTAAAATGT ATTAAGCAGT TTTTACAAAA AAAATGTATA GAATACAGGA GCCAAAACAT
TTANCAATTA CCCTAACTTG CTGACACAGA NTACTATTAA TAAATAATAC TGATCANNGN AAAGTAATCA ATTTGAAAGT
GGTGGGGGTA GAAGGACAAC A

SEQ ID NO:1038: (Length of Sequence = 281 Nucleotides)
GGAGGCTGAG GTGAGAGGNT CCCTTGGGCC CAGGAAGTCA AGGTTGCAGC AAACAGTGAT TGCACCACTA CACTCCAGCC
TGGGCAACAC AGCAAGATCC TGTCTCAAAA AAAAAAAAAA ATATCAGTAT TGTTTTATTA ATTGTAACAA ACACACTAAA
TAAATGTAAG ATGCCAACAC TAGGGGAAAT AGGATNTGGN GTAAATGGGA ACTCTCTGNA TCATTTTTGC AACTTTCCTG
TACATCTTAA ACTATTTTAA ATGNTTCTAC AAAAGTTAAC A

SEQ ID NO:1039: (Length of Sequence = 246 Nucleotides)
CCAATGATGG CAAACATGAG GATGGCAAAG AAGAGAAGCA GCCCAATCTG CAGGAGTGGA ACCATGGCCT TCATGATGGA
CTTGAGCACC ACCTGCAAAC CTGGGGCCAG AACAGGGCAG GTCAGGAAGC AACGTGGGCA GGGTAGGGCA AGGAATTTNG

TGGGGGCAGG GACAGANCAG CAGGAACCTA GCAGGGACAG CAAGGTGCTA AGCAGTNAGT GCTTTCAAGG GCAAAGGTTA
GAGCTG

SEQ ID NO:1040: (Length of Sequence = 399 Nucleotides)
GAGGTCAAGA AGAGCTTAAG AAAATATAGG AGATACTACA GCATGTTTGG TTCATGACCG GAATGATTTA GTAAGAAGGA
AAAGCCAATA ATGTAAGAAA GGCGATTGCA GGAGCAAAGA CTTTAAGGAA TAAAAAGGNC AAAATTGTTT GTTTCTCAGG
GAAGTAATGA CAGGGGCTGA GCAGGAGCCA GGAAACCCAG CTTTTAGCTT CAGNTCTGCC TGACATTTAT TGGTCATGTG
GCTCTGGGTG TATTCTCACT TCTCCTCCCT AAATAGCAAG AAGGAAAAGC CTCTTGGAGC CTCGTGTCTC TGCTTCTTTC
TGTACAATGG TTATGTTTCT GNTCCGCTTA GCTGGTTAAT TATAGAATCA CCCTNGCTGG GGTCTTTTGG GGACTGGCC

SEQ ID NO:1041: (Length of Sequence = 324 Nucleotides)
CCATAAACAG TCCGTCACTG ACAAATGTTG TTACGCAGCA CATTTTATGC AGTGTGTGAC CATACACGAT ACACAGAGGA
AATTCAGGGC TTCTAGGAAA CCTTCTAAGG CCTCATCTCC CTAAGGGCAC CTGATGAGCC ATTCCTCACC CCTGCACTGC
ACCAGGNCTC CAACACCACC ACCAAGGCTA ACCGCTGTGC ACTCTGGGCC CTGGGTCTGC AGTACCTGGC TCCCAAGCAC
ACCAGCATCT GAAAACTTGN CATCCTTGCC GAINTTNCGG GGAGTATTGG TTGATTGCAG TGACAAATCG GCAGAAGTTC
CGGG

SEQ ID NO:1042: (Length of Sequence = 212 Nucleotides)
ATCTGTTTCT CAGAGATGAC ACTGCCAACA ATCACAGATT TGCATACAAT ACAGTTATGT ATTGGCTATT CACAATTTAC
AGTAGTGTTT TTCCCTCTGA AAAATATAAG TNCAAAAGCT AAGTAAACAA TGNGGTACTG CCATTGGGN TTTTTTACAT
GGNCTTAGCT TAAAGAACTG GTCTTTAGCA AATATTCAAC AGNTCAACCT GA

SEQ ID NO:1043: (Length of Sequence = 329 Nucleotides)
ACTTGGAGAA AGAAAAATTA GAGAATTCCA GATCCTTAGA ATGCAGATCA GATCCAGAAT CTCCTATCAA AAAAACAAGT
TTATCTCCTA CTTCTAAACT TGGATACTCA TATAGTAGAG ATCTAGACCT TGCTAAGAAA AAACATGCTT CCCTGAGGCA
GACGGAGCTA TTCCAGATGC TGATAGANCC ACTTTAAATC ATGCAGATCA TTTCATCAAA ANTAGTNCAG CAGCAAGATG
AAGAGCGACG TCGGCAGCTG AGAGAGAGAG CTCGTCAGCT AATAGCAGAN GCTCGATCTG GAGTNAAGAT NTCAGAACTT
CCCAGCTAT

SEQ ID NO:1044: (Length of Sequence = 285 Nucleotides)
GTTGAAGCTG TTTTNATTTC ACACCCTTCT GTTTTAAAAC ATAGGGACTG ACAGGGAGAC CCAGGGCTGC AATCTGGGTG
GTGCTACATT TGTAGACAAG GACAACTTGC TGTATTTTAA CCCAGAAACA TTAGAAAGTT TGTCCTTGAA CTTCTGGCTC
AGATTTAGAT GCATCTTTGA AGTGCTGATA TTTGGCTTAT CTGAAGCTTT GGGATTATCA TTTNCTAGTT ATGAAGGGAA
TGAAAGTGTT CATAACATTT TTGCAGGTGG AAGGTAAAGT TGTTG

SEQ ID NO:1045: (Length of Sequence = 317 Nucleotides)
TCGGTTACTG TAGTATTGTA GTATAGTTTG AAGTCAGCTA GTGTGATGCC TCCAGCTTTG TNCTTTTTGC TCAGGATTGT
CTTGGCTATA CAAGGTCTTC TTTGATCCCA TATGAAATTT AAAGTAGTTT TTNCTAATTC TGTGAAGAAT GTCAATGGTA
GTTTCATGGG TATAGTATTG AATCTATAAA TNATTTTGGG CAGTACGGNC ATTTTCATGA TATTGATTCT NCCTATCCAT
GATGATGGAA TCTTTTTCCA TTTGTTTGGG NCTTCTCTTA TTTCCTTGAG CAGTGGGTTT GTAGTTTTG GACAAGA

SEQ ID NO:1046: (Length of Sequence = 316 Nucleotides)

CCAGGTGCAA TCTCGGCTCA CTGCGACCTC TGCCTCCGCG TAGTGGGACT CCAGCTGTGC ACCACCCAGT CAGCCCCACG
CCCACCCTGC CAGGCGTGTG CACGGTTCAG CGTCACTTTA CAGATGAGGA AACTNAGTCT TTGGGAAGCT GACAAGGTGC
CTGACACAGG CCAGGGCAGG GNCCACCCTC ATGGGCTGTG CTGCAGCCTC TGCCTCGTGG GTCACGGCAC CCCATCTACG
AGGNGCCCCT CAAGGATGCG CCGTCGAGTN CCCGGGGCCC TTGGCATGTN CCTGGCAGAG AAGGCAGCTC AGGGGT

SEQ ID NO:1047: (Length of Sequence = 261 Nucleotides)

CTTCCTCAAA CTCGGGTTCC AGCTGGGTCT CAAACTCAGG CTCCAACTGG GTCTCAAACT CGGGCTCCAC CTTGGTCCCA
AACTCGGGCT CCACCTCGGT CCCAAACTCT GTCACCACCT CTTTNTAGGT CTCANTCTCC GACTCCTCCC AGCCAGCGGT
GGTTGGCGGT ATNAGGCCCC AGGGCTCTAT GGTAGTGCTC AGGGTGNGTG GCAGGGGCAG GGGGCAGCGT GGGAGGCACA
GTGTNGGGGG CCTAGGGTGG T

SEQ ID NO:1048: (Length of Sequence = 390 Nucleotides)

GAGAACAAAG AGAATGGAGG CCACATACAA TGGAGTAACA GAAGCTTTGC CTGTAGCTCA AGAACCAAGC CGAGAATCCA
CACCTCCTGA TTCACAGTTC AGTATTTTCG GCCACTTTAC TCAAATATTT TTATAAATTA TTTTTAAATC GGCAAAATAT
TTAAATTTCA TCCATTAAAT TTAAATTTCT AGATGCCCTA GTGGCATCCA GAACACATAT TTNGGGGAAA ATATTCTAAT
TTTTTTAAAC AGAAAAAGCT AGGNNCAGAT GATGCATTAA AAAAGTAGAA CACAGAGCTC TTAATTTAGG AATGATCAAA
ATAGGGTTGA TTCAACTATT ACCTTCTCCT AGGGATTATG GATCAACCCC TAGCAGCAGN CAAAGTCACA

SEQ ID NO:1049: (Length of Sequence = 335 Nucleotides)

AAACTCACAA GTAAAATAAT GCATATTTAA GGGAAATATT ATACAGACTT TTTCACACAG AAGTACATAA TANGATTTTT
TAAAATCTAT TGCCATTCAT TTATTTTTGC ACAAAAACGT ATAAATATGT CACCAGCTTT NCTTAACTTA AAAAACTTAA
ATAAAAGACA CCAGATGAAA ACTACCCTTT GCTGCCATTT TTTTTTAAGT TTTTTTGTAG GGGTTTTTTA TTTTTGGNGT
TTTTTTNCTT TTNCTGCTTA GAATTGGGTT TCTAGGGAAG AAAAGCCCCT GCATTAAAAA CAGNCCATTT AAAAAAAAAA
TTCAAAGTTC TGGAT

SEQ ID NO:1050: (Length of Sequence = 265 Nucleotides)

AAAGGGAGGG AGGGAGGGAT GTGGAAAATA TGCAAGATAA ATTAAATNCT TAGTTAAAAA AAAAAAAAAG TTTCACCAAC
TGTNCTCCAT TACTGAGAAG CCCCCACACT GCCCCACTGT GCATATTCCT AGTATTTCAT CCATGTCCTG CTCTGCTGTG
CTGCCCTACA AAAAANCCCT CCCGGGGGGG AAAAAAAANC AAAAAANCGG TGTAGTGTGA ACTGCTGAAG AACTTAAATG
TTCAAGNGCA TCTTTAAAGT CTAGG

SEQ ID NO:1051: (Length of Sequence = 298 Nucleotides)

ATTTCTAAAA TGCTCTCAAA TACTAATATT ATACATTCTC CCATTTATCC TCAAAAAACC CATGAGACTG GTGATGTAAT
TNCTGTGTTC ATTTCACAGC TGTGGCAGTC AGTCTAAAGA CCAAGTGATT TGCTCAAAGT CATGGAACAC TTAAATGGCA
GAGCTAAGGC TTAAACCCAG AATTTAAAAA TTTTTTTNAG CTTCTNGTTT TTNCCATTAT ACCAGTTTGG CCCTTCATTT
TATTCATGGG TTAAATTAAA TTATGGTAAC AAAGGGCCCC TGGTCACTTT GGACATTT

SEQ ID NO:1052: (Length of Sequence = 359 Nucleotides)

AAGGCAAACG TGGTACATCA TGACACCATG GGAATGACTC ATGCCAGCCA TAAAAAGAAT GAGAATTCTG TCCAGAATTG
GTTCCTTCCG GTGGGTTCTT GGTCTCGCTG ACTTCAAAAA TGAAAGCCAT GAACCCTCGT GGTGAGTGTT AACAGTTCCT
TCAAAGATGG TGTGTCCGGA GTTTNTTCCC TTNCAGAATG TTCCAAATGT TATCCCAAGT TTCTTCCCTT CTTGTGGGTT

280

TGAATGGTTA ACCAACCCCT AGGCTACCAC TCTGTATTTC ATCAGGGGTA GGGGTATTAA ACCCCACATG CAAGTAAGGA
ACCCTTGCCC CCAGTGTGCA AATGGGATGG GGATGCT

SEQ ID NO:1061:   (Length of Sequence = 206 Nucleotides)
AGAAAGTAAG ATTCTCAGGG CAACAGTGTA CAGCAGAGTG GTTGCTCCAC AGACAGAGGA GGGCAGAGTG GCCCAGAGTA
TCAGCGTACA GCAAAGTGGG TGTTCCCATC CACAGGGGCA GCGCTATCTC ATAGGANAGA ACAACCCCTA GGAAGGCAAG
CGTCAGNCAG NCAGCAGTGN AACAGTCAAC AGTTAGCCAG TGTCAG

SEQ ID NO:1062:   (Length of Sequence = 316 Nucleotides)
TTNCCCTCAC AGAGTTTTAG TTAGAATCAC TTTCTCTATT TCCACAAATC CTTCTTTTCT TTCCTTTTAT TTTCTAAAGT
GAATGTCCAA GCAAAAAGGA AGCAAAAATG GTCAAAGATC TCTCTTACAA TATAGTAATA AATTTATNCA AACAACTTGG
AATTCACCCT GTGCATTGAA AATNCAACTC CACACTGCAA ATTATGGCAT TTTTTCCCNC TCAAAGGAAT TAGTGAACTC
CATTGGATGC ATTCATACTN CTGTTTAGGN AATAAGGGAA ACCGCTTTGT AAAAGTNCAA CATGGCCTAG GAGTTA

SEQ ID NO:1063:   (Length of Sequence = 314 Nucleotides)
ATGATCTGGT TTATGCTTCA GAAGAAGCAT AGTAGCTTCT ACAGAAAATA AATGATAGAA GGCAAAAGAG AAACATGGCG
AGTATTCCAC TCCAGTGTCT AGTCAAGAGA TTACAAGGGC CCTGGCATGA GGACAACAGT AGAAATNGTT AAAAGTGTAC
TGGATTGCAA AATATTACTT TTGGGCCAGG GCGCCGGNGG ..ACACGCCT ATTAATACCC AGCACTTTNT GGAGGTGCAG
GGAGTTNCGA GTACCAGTCC TGGGCCAACA CGCNTGGAAA TCCTGTTGAA AAATATAAAA ATTAGCCGGG CCGT

SEQ ID NO:1064:   (Length of Sequence = 322 Nucleotides)
GAAAGCATTT GAACTAAGTN TGTAAAAATG GCAGATAATA ATTAACACTT GGTAGCAAGA AACGCTTTCT GAAATACTGG
GAACACTGAC TTGTTTCACT GTAACTTATC ACCTAGTGCT GTATCTGCCA TAGTGCTCAC AATTGCAACT TTATATCCAA
CATGGGTGTT CCATTTCTAT TTGGATAAAA TTTACTGGAA ATATACTAGC AANGAAAAAC TGGTCTTAAA ATGGCAAAAG
GCTCTGGCAC TAAATTCACT GCTACTTAAC TTAGTTTACT AATTAACTTC CTTAATTATA GTTTTCCAAA TCCGCATGCA
CG

SEQ ID NO:1065:   (Length of Sequence = 297 Nucleotides)
CCCTGNCAAC TCCTTGCATG GACTGATGCT GGAAACTGGG TCAGGGAGCT CCAGGAGGAA CCAGACAGGN TCCTGTTAGC
AGGCTCACCA CAAGTTCTAA AGGGCACCAG CCTTGAGAAG GGCAGTTGGG ATGTGGCCAA ATGTGAAGCC AGGTTTNCTG
GGATCCTGAC TGTCCCAGGT TACAAGTTCC TGGCCACTCT GTGAACCTTG GGCAAGTTAA CTTCCAACCT CTTTACAAGT
TCCCTAATCT ATNAGGAAAC ANTTAGTNAC ATGACCTTCA TGGGAATTTA TTTATGA

SEQ ID NO:1066:   (Length of Sequence = 267 Nucleotides)
ACAATGGGAC TGTCAGAGCA GCCAGCTCCT CCCTGACTGC TCCACAGGAA GAGCCATCAA CAAAGCCAAT CCCTGGAGAT
AGGCTCTGAA ACCAGGATAG AGACTCCTTC AATGGCTGCT GNTGGTTCCA CCATGTATCA TCCAGAGNAA TCACCCTGNG
TGGGCATAGG TGGGCCTGGG AATCTAGGGC ACAGCAATTC CACACATCTT CACCTAGAAA CCCTCCTTCT GGGTGGGCCT
GCATGGTTTC ATGCCTGTAA ATCCCAG

SEQ ID NO:1067:   (Length of Sequence = 220 Nucleotides)
AAAATGCAAT TGGTTTGTTA CTGAGTACTA TTCGTGGGAA GACAGCATCC TGNACTCCCT CTCTACAGAA TATTGGGAGT
AAAAATGAAT GTCATCCCCG GTGGGAAATA TTATTGGGGG TTGGAAGCAC AGAGCACAGG AAAAATTAAG TNCAGGAAAC

281

AGACACTAAG AGTGCACTGG GCAGGTCTGA CTGCAGGTGA TGCAACTTGC CAGCCGTGGT

SEQ ID NO:1068: (Length of Sequence = 412 Nucleotides)
TGGCCAGCAT CTGGGAACTT TGGGTTGTTG GACCAACTTC TTCCAACACG TGCGCACTGA TGGCCGGGGC CCCAGCCAGG
CCTGNCTGGA AGGGTCTTCC CCGNCCCGAG GGACTGTAGG GGGTCTCTAG GAAGCATCAC ATCAAGGTCC TCAGGTTAGA
TNCAGGNCAG CCCATTGACC CATTTNAGGG GACAGCTGGA GGGAAGCCCG GAGTCCCTTG TTTCTTCAGC TGAG

     234

TCGCTCATGA AGATAATTTA ATGCTAGACT GATTTCTGCA GAGTAAAATC TGGCATGTNC TTCAGGAAGT TTTCTTTGTC
GCTGCATATG AAACATTAGG TCTCCTCCAT TTACATACTC TATAACAAAG AACAATCTGC TTTCTGTCTG AAAGCAAGAA
TGCAGCCTAA CAAGGAAAGG ATGATTGGAT GCCTGCTCAA ACACATGCTT CTCTGTCTGT ACCCAATCAA TATCCTCATC
ATCATTAACA AGCTCTTTTT TCACAACTTT CATTGCATAA ATACGATCTG TTTTTTTTAA TCGAACCAAC AGTACTTTGG
CATAACTTCC TCTTCCTATT ACCCGGAGCA AATCAAAATC CTGAAGACCT AGACTGGATG AAGCTTTGCA CTTTCCCTGG
NGTCATTGCC TC

SEQ ID NO:1070: (Length of Sequence = 358 Nucleotides)
GTGATTGTNC CACTGCACTC CAGGTTGGGT AATGCAGCGA GACTGCGTCT CAAAAAATAA ATAAAATAAA AAAAAAAAAA
AAAAAAAAAA AAAAAAAAAG CACCACCGCA CTCCAGCCTG GGCAATAGAG TGAGAACCTG TNTTCCAAAA AGAAAAATNT
TAAAAGANTG ATCTNGGCCA GGCGTGGAGG CTCATGCTTG NAATCCCAGC ACTTTGGGNG GCCAAGAACA GGTGGTTCAC
TTGAGGNCAG GAGTTCGAGA CCAGCCTGGC CAACATAGCA AAACCCCCAT CTNTACTAAA ATTACAAAAA GTTAACTGGG
CATGGTGGTA CATGCCCTNG TAATCCCAGT TACTTCCG

SEQ ID NO:1071: (Length of Sequence = 411 Nucleotides)
CTATTTATGA ATTCTCGCAT TGGTTTCGAA AACTCAACAC AGTTAAATGA ACAGGAATTG AAGGTGCATG ATGGATGCGT
CCCTCATAGC ATTTAAATCT CTTCCACTTG ATTAAAAATT CCTAGTTCCT CTTCACTGAA TTGTTTAGAG TTTTTNAGCA
GCCTCTGCCC TGATTAAAAC AAAATTAGCAT CAAAGATCCC CTGTTGAATG AGAAATCATT AATTGAGAAA CATGCAATGC
TCCTTAATTA CTTTTAGAAC AGTGAGAGAA CAAATAATCT CAGGTTCCAG AGGGCCCTGC CTGCTCTGCA CCGTGAACTC
ATTTCGTGTA GCTGCTGGAA TAAAACTCAA GTAGGCAAAC ACTATTTGGG GAATATCAAT GCAAGCTTTC AGTAAACACA
CTGTAGGATT G

SEQ ID NO:1072: (Length of Sequence = 342 Nucleotides)
TCCCATTTTT ATAATTATTG GAACATGAAA CTGTATTTCT ATGAACTCAA TGATTTTTTT CCATAAAATT ATATGCTAAG
AGAGTCACCA CAAAACTATG AATTCTCTCC CGAATTATTT TTGCTTCTTT GGAGCACCAT AGTCTTTGTT CAAATCACAA
CATGAAACTG TTGCTGCAAT GCTAAAGATG TGAATCCACC ACTATCAATA CGGTCAGGGT AAAACCTGGA GCCACATGTT
ATTCAAGTTA TTTTTGTTAT CTAATGATTG ACATGAAAAT AAAATAGTAA GCCAATATTA AATTTGTAGG CATAGTTGCC
CCACCTNAAA AGTGTTTACA AA

SEQ ID NO:1073: (Length of Sequence = 217 Nucleotides)
GTTTTCTGTC CTGGCTAGGA TAATGCAAGC NCTTTTCAGA TGANTCAGAA TCGAAGAAAA TACGCTGGTA AAACAGGACC
TGATTTACCA GGNACTAAAC AATTACACTC CCATTTCCAT TGCTTTCAAT ATTTTCCACAC GNTACACTAA CCTTTAAGAT
GGAAAGGGAA AGCGATTTTT TNTTCAACAA GTGGGCCACC AGATGAACCA AATTAGA

282

SEQ ID NO:1074: (Length of Sequence = 379 Nucleotides)
GGTTAAAATT TCATCGGAAT GTATAAGCTT ATTTATTAGT GTATTTAATG GTTCATCAAT TGATAAAACA GGTGTAGCAA
ATACATGCCT TCCTTTTGGG GGATGGGCCT GGTTAATCTC CAAATTGGCC GTTTGGAACA ACTCATCATT ACTGTACAAA
GAAGGTACCA CTTGGTGGGA ACTTTCACTT TTTAACAAAA CTGGTTCATA TTTCTCACTT GCATAGGAAA TGGTCAAACC
TTGAAGTGAA GCAGAGTGCA TATGAGAAGT AGGCGACACA TCAAAAACTG GTACAGATGT AGAGTGCAGC ATGTTTTCAC
TTGAAGCAGA ATTTGATACA ATGAGGATGC AACCATTGTA GANCTAAATT TATCAACTT

SEQ ID NO:1075: (Length of Sequence = 345 Nucleotides)
ATTAAGTTGA CAGTCCAATC AGAAATATTT AAACAAAGTT TCACTACTTA AACACCATCT AAATATACTT TTTGTTATAT
TCCCAGCAGA AATTGATGGC AAGGAATCAT ATATCCCATC AAAACCGTAT TTTTCCCCCT AAAAGGCAGT TTAGATGTNC
TCATTCTAGG NTTTCCATCT CTCTCCTCCA CCATTCCAAT TCCCAGAGTA CCTCTACAAA TATCCCTGCT TACCAGTAGA
NCTATTTGCT TTAACAATCT TTCTGTGGGT AAGGAGATGC ATATGCCAAT GTGAAAACTA TGGAGGGGGA CTCCTGCCTT
CAAAGGCTGA CTAGAAACCA TTGGA

SEQ ID NO:1076: (Length of Sequence = 286 Nucleotides)
TTTTTTTTGA GATGGAGTCT CGCTCTGTNG CCCAGTGTGG AGTGCAGTGG CATGATCTCG GCTCACTGCA AGCNCCGCCT
CCTGGGTTCA TGCCATTNTC CTGCCTCACC CTCCCGAGTA GCTTGGACTA CAGGCGCCTG CNACCACGCC CAGCTAATTT
NTTNTGTGTG TGTTTTTGGC AGAGACAGGG TTTCACCATG TTGGCCAGAA TGGTCTCTAT CTCCTGACCT CGTGATCCAC
CCGCCTTGGC CTCCCAAGGT GGTGGGATTA CAGGCGTAAA TMACCG

SEQ ID NO:1077: (Length of Sequence = 366 Nucleotides)
TCACATAGGT CACATTTTAC CCATGAAACC TTTCTAAATT ACCTTTTGCA TTTNTTGCCT ATCCTTCTAC ATCATCATAC
TTCGTCAATT AAAGTCACTT TTTTGGGTAA CATTTCAGAA ATTGGGATTC CTCTTACAAT TGCTATCAGA CAGAAGCCAA
TTATGATGTT GTCATTGCTT ACACATGGGN AAATAACAAA ACTGCCAGCA TGACATTTGC ATATGACAGT CAACAGCCTG
AAAGAAATTC CCAGAAATGA TACTGGAGCA TTCATTTCAC CCTCTAGGAN CCAAATGGAC TNGGAAGGAA GTAGAAGATG
GGGAATCCCT AAGCAGCAGT CAAAGTAGGC TGGCTTTTCA TAATTT

SEQ ID NO:1078: (Length of Sequence = 380 Nucleotides)
GTTTAAGTGC GAAGATTTTA TTAGGCGGTA CAATTCCAAG GTGGTAAGGG TGAAAGGAAA GGCGAAGGCA GGCAAATACA
TTATTGAGCT GAAAACAACT TTACATTCAA GGACAGCTTC CAGACAAGCC ATGTAGAACC AGCATGCCTT GGGACTGTNT
GGATGGCAGG GAGACGAGTT TCTATGCTGA CCACTTCATG CTTTCTSCCC CCTTTGGGGA AAGTATGCCT CACGGACCTC
TAACTCTCCC ACTTCTCTGG GGGCAGCACC TGACCCCTCC CGGCAACTNC TAGGCAAGAG CATTCTGTTC CTTCAAATTT
YTCACCTGAG TCTGAGTCAG AGCATYCCAT CATCAGAGCC TCTGTCAAGG AGGCAGTGCT

SEQ ID NO:1079: (Length of Sequence = 439 Nucleotides)
CTTAAGTTAC TGAAATTGAA ACACCCTTTG TCCTTCTCGG CGGGGGCTTC CTGGTCTGTN CTTTACTTGG CTTTTTTCCT
TCCCGTCTTA GCCTCACCCC CTTGTCAACC AGATTGAGTT GCTATAGCTT GATGCAGGGA CCCAGTGAAG TTTCTCCGTT
AAAGATTGGG AGTCGTCGAA ATGTTTAGAT TCTTTTAGGA AAGGAATTAT TTTCCCCCCT TTTACAGGGT AGTAACTTCT
CCACAGAAGT GCCAATATGG CAAAATTACA CAAGAAAACA GTATTGCAAT GNCACCATTA CATAAGGAAC ATTGAACTGT
TAGAGGAGTG CTCTTCCAAA CAAAACAAAA ATGTCTCTAG CTTTAGTCNG ACCTTTCACA AGGTAATAAC CTTTCTGTAT
TNAAATCAGG GTAACCCCTT TCTGTATTTG AGTGCAGTG

283

SEQ ID NO:1080: (Length of Sequence = 419 Nucleotides)
CTGAACTCCC TGAAAATAGG AAGTCTCAAT TAAAAAATCA ATTTGTCATA GTCCACATAA AGATAATCAA TACATTTTGC
TCTCAGTCCT TGGGATGGTT TTTGTAAATA ATATTATCTT GACAAAAACA AACAGGAAGA TCCCACCCCC AACACATACC
ACATTCCAAT GTTACCTGGN ATTAAAAATAT ATACCAACAT GCATCTTTAG GTTACTCTGG TCCATGGTTT CCTCCAGTGG
CAATGGAATT TACAAAAATG TAAGACGTAA TAGATATATA ATTATCTTTT TNCCTAAATG AAACTAGCCT TAAAAACTGG
TACATAATGG TTCCTGGGTT CANTGATCAA AATTATGGAN GTACACTTAA CCTATCTTCC ATTGAGTGGC TTTAAATGGG
ACCTTAAACT GTGGACTCC

SEQ ID NO:1081: (Length of Sequence = 411 Nucleotides)
CAGCGTTTAA ACCAAAGGCG CACTAAACCT CGTAAGCGCA TGANCAGATT TAAAGAGAAA GAAAACTCTG AGTGTGCCTT
TAGGGTCTTA CTTCCTAGTG ACCCTGTGCA GGAGGGGCGG GATGAGTTTC CAGAGCATAG AACTCCTTCA GCAAGCATAC
TTGAGGAACC ACTGACAGAG CAAAATCATG CTGACTGCTT AGATTCAGCT GGGCCACGGT TAAACGTTTG TNATAAATCC
AGTGCCAGCA TTGGTGACAT GGAAAAGGAG CCAGGAATTC CCAGTTTGAC ACCACAGGCT GAGCTCCCTG AACCAGCTGT
GCGGTCAGAG AAGAAACGCC TTAGGNAGCC AAGCAAAGTG GCTTTTGGAA TATACAGAAG AATATGATCA GATATTTGCT
CCCTAAGGAA A

SEQ ID NO:1082: (Length of Sequence = 350 Nucleotides)
CTGTGAGGGC ACAAGTGTAG GTATCTTTNC AAGTTCTCTA GGTGATTCTA GAATGCAGCA GGGTTGAGAT GCTCTGCCTT
AGGGGTAGAG AGGTGGGAAC ACTGACAGGT TCTGCAAAAC ATCTCTGAAC AGCTGCTGGT GTCTTTTTCT GTACTTCAAG
TTTCACGGCA CATCTGATAG CTGTNCCGAA AGGGAAGAGA GAATTACGTG GGCTAGGCTG GTTTGAAGGT TTGCNTAAGN
TTTGGCTTGA GCGACTTTAA CACGTTTATT TCAAAGTAAT TTGTGTTTGT AGCCCCACTA AAGTAATTTT GGGCCAGNAA
AGGTTCAAAA TACGGTTTTC CCTACTTAAG

SEQ ID NO:1083: (Length of Sequence = 430 Nucleotides)
GTGAAGTCCA CCTGCTTATG GACAGCCCAT TTGCATGGGG CCCTGCGTGT GGTGCAGCCC AGGGTATGTN AGGAAGGCCT
CANAGGAGCT GCTGCTGCCA CAGGTGGTCA CCAGGGCAGA GGTTACACTG ACATACCTCC AGACCAGCCC GCTCCACTGT
GGACAGGGGC AAGTNACATA CCTGCTGTTT ACCATGGGGT CACGGCAGAA CCTGTNTCAC GGGGTGCTTT GTGATGCCAA
ATGGATATAG GTGGGACGTG CTGGCAGCAG CGGCCTCAGC GTCGAGCCAT CTCCCCTCCC GTTCTGCTCC GGCCTGCCTG
TGGGCCTAAT GGTGGCACCG TTTAAGCANC TGCTGTGTGC TCAGCCTGGG GGNCTGAGGG TTTCCATACA TGATCACTGG
TTCCTACCCA AGGCCTTAAT TCCTNCCTGT

SEQ ID NO:1084: (Length of Sequence = 369 Nucleotides)
AATGGAAGAA GTGAAAAAGA ACAACACAAA GAAAATAAAG AAGTAACCTC TTTCACCCAC TGAAATAATC TCTGGAAAAG
ATATTAGCAA TCATGCAGCT TATAAATATC TAAAGGGCTA GAATTGAGGA ATTTATAAGA NTAANTTTTT TTTTCAACAC
ATAAAATACA ACATGGGAAA TAAGATGTTT TTTACTAACA GGCAAACACT TGAGGNGTCC TCTTCAAAGA CTACAGTGGA
TGAAAGACCA GTTATCCAAA GGAAACGGTT AGTAGAAATA TAAAGTTAGT CCCACACAAA ATTAAAATGG TGCTCAATGC
AGATTATCTA TCATTANACC ATTTTTAAAG GCAATTNTT ATTTAAAAT

SEQ ID NO:1085: (Length of Sequence = 413 Nucleotides)
ATACCTTTNA GCTGGCATAA TTTAACGTTC TAATTATCCC TTAATCATAA GCTGTACGAT TCTATAATTA AAAAGTTAAT
GCCTTCTTAA TGTCTATNCT AGTAGAAGAA TGATGAGAAA ATAATAGTAT AGATTAGTTT TGGTCTCTAC TCATTTTGCC

284

TTCTGATTAT ATTACAACTC CAGCTGGTGA CAAGATGGCT GTGTAAATCT TGAAATCACT GAGCATTCAT TTTAGCTTCT
CATTGAAAGG TAGATATTCA GTATGAATTG TAAACTGGCA TTAAGGGAGA AAGTAGGNAT AATCAAACTT GATCTGAGAA
TTACTTGCTG GTGCATTTCC TCAATGCATA GTAATATCCT TATGANGATG CAGATGCAAA AGTGGGTTTT GGAGGTGGAT
AAGGAGGGCA GCT

SEQ ID NO:1086: (Length of Sequence = 277 Nucleotides)
TGGATAGCAT GAGGCAAATT GCCAGAAGAG AATTTCTTTC GCATCCTAGT AGAATAAATC CAAATTATCT TTGTGGTACT
GAGGATGTCT GGTTTAGCAC AGTGTAAAGT TGTAACACTT TAACAGGCTA TTAATTCACA GTCACTAATT CAATGCTTGC
CCGGAGTTTT GCTAGAAAAG GATGAGAAGG ATTAAGGTAA AAAAAAAAAA NAAAAAAAAA AAGATAAGGT TAACCAGATA
CATCTTAAGA GCTGATTGCT CTTCATTCCC TAACTCG

SEQ ID NO:1087: (Length of Sequence = 360 Nucleotides)
TTTTTTTTTT TTTTTTTGAG ACATTGTCTC ACTGCGTCGC CCAGGCTGGA GTGCAGTGGT GCAATCTTGG CTCACTGCAA
CCTCTAAATC CCAGGTTCAA GCGATCCTCT CACCTCAGCC TCCGGAGGGC NTGGGATTAC AGGTGTGAGC CACCGCGCCC
GGCAGCATTA TTTTTTAAAG ATCTGTGATA GTGCATGTTG TGCTAGTTCT TTAATACAGA CTATATTGTA TTCCATGTCA
GTTTTTAAAG TTTATTTCCC TATTGATGGC ATTTAATTCC AACTTTTAGA TAAAAGGATG TACTGGACAT TTTTATAATT
TTTTTGGGGG ACCATGTAAG AGTTTTTCTA GGGGGAATTC

SEQ ID NO:1088: (Length of Sequence = 209 Nucleotides)
CTGGGACCAG CTGGAACAGA AGTGGTAAAG GATAACTAGC TACCTGCACC GCCAGAGATC AGGNTCAGGG TGAAGCTGGT
TTCCCAGCAG GCGAAGTGAA GGAAAGTGGT TNGAAAGGAA GAGGAGGAGC AGGAGATGGT AGGTCCCTCG CCTNTCTCCC
NTNCTACCCT GGAANATAA GTGTCAGGTT CATACTTAAC CACCCCCTT

SEQ ID NO:1089: (Length of Sequence = 409 Nucleotides)
TTTTGCTCAC AGCTACATCT TCAGAGGTGA GAACCATGCA TGACACAGAG AAGATGCTCA CTGATGGATT TAATGAGTCA
AACATTGAAG AATCAATGAG TGCCGGAAAT AAACAGGATA GGTGGCAGCA TAGCATGCCC TTAAGANCAT GGCTGTGGAT
TCAAATCCCA GACCAATCAC TGANTTTCAA GCCACTTTGC CTCTCTGAGC CTCTGTTTTC TCATCTGTCA AGTGGCAATA
ACAATAAATG GTACGTGCCT CATAGGGGCA CCTTGAGGAT TAAAAGAGAG GGTTTCAATA AATCAAGTAC TGATTTCAAA
ACCTGGCACA TAGTAGGCAC TCAGCACATG GNCCTTATAT ACTTNTGGGC CAGCAGCGGC TGGGGCTCAT CCCTCCCTGG
CTGGGTCCA

SEQ ID NO:1090: (Length of Sequence = 337 Nucleotides)
GAACCTNTCC CCATTGGAGA GGATGAGGAT GATGATCTGG ACCAGGAGAC ATTCAGCATA TGTAAGGAGA GGATGAGGCC
CGTNAAAAAG GCACTGAAAC AGCTCGACAA ACCTGACAAG GGGCTCAACG TGCAAGANCA GCTGGAACAC ACCCGGAACT
GCCTGCTGAA AATCGGAGAC CGGATAGCCG AGTGCCTTAA AGCCTACTCA GATCAGGAGC ACATCAAACT CTGGAGGAGG
AACCTATGGA TTTTTGTTTC CAAGTTTACA GAATTTAATG CTCGAAAACT GCATAAGTTA TNCAAGATGG CTCATAAGNA
AAGGTCTCAA GAAGAAG

SEQ ID NO:1091: (Length of Sequence = 411 Nucleotides)
CCACTACCAC AGGAAATCTC TATACCCTTC TTGGCTTTTC CTTTTAATGT AATTTTCTTA AAAGCTTCAA GATAATTTTT
AATCAGGCAT GCTGAAATCT ATCTAACCTA TTAGTCACTA ATTATATTCT TCAAGCCTAT ATATTAATGT TTCTNCTGTT
GTAAATTCAT GATCATAAAG TTTTGGACCT GGCCATCAAT ACTAAAGCAC TGATATTTAG TTTTAGGTGA TACTTGGGCA

TAAATACAAA CACGGGATAT ATTTNGTCAT AGAAAAAAAT GTGTTACTGC ATTATTTTGC ACTTCTGAAG GACTGCAAAC
ATTTTTCAAG CACAATAAGC AAATTCTTCT TTCAAAAAGG NATACTTTNG CACATATGTN AGGTTTGGAA AATGACTAGG
NCCCTAGGGA G

SEQ ID NO:1092: (Length of Sequence = 349 Nucleotides)
AAAGAAAATG CCTTGGGAAG ACAGATGCAT TTTTNCCCAC TGGTGTTGCA ATTGCTCAAA TATTTTNAGG ATGAATATCC
TCACCTTGGA GGCAAGTTTT TAAGAGTGAA TTTGAATTAC TGGAGCAGTG AACAATTATT TAGAGTCTGG TATAAGTGAA
GAAAAGAATC ATGACCNGTA AGCTGTCTTG NAGGTACCAG CAAACTGNCT CTAAAATTTA TATGGAAAGG CAAAGGGGTT
AGAATAGCCA ACATAATACT GNAGAAGTTG GAAGACTCAC ACTATCCAAT TTCAAGGTTT ACTGTAAAGC TACAGTAACC
AAGGCAATGT GGCACTGGTG AAAAAGTAA

SEQ ID NO:1093: (Length of Sequence = 400 Nucleotides)
GGACCTTGTT TTACATTCTG GATTTTCCTT TTTACTTTCC TAATGATGTA ATTTAACTNC TTCCTGTATT TNCCATATTT
CCTATAAAAT GGTAGTTAGA TCTAAAAGCT TGATTTACTT ATTTCAGATT TCTAGTCAAG GGTACTCAAT AGATTGTATT
TCCTTTTGCC TCACACGGAG GTGCATAATG TCTGCCTGGC CTGTAGTGAT GCTAAGGTTG ATCATTCTGT TCAGGTGGCA
TCAGTCTGTG ATAACTTCCT GTAAGAATCG TTCATTAACC TTTCATCTAA TGGNTCCATT CATTCATGAT CTTTAACTGA
ATCCCTGTTA TTTCATTAGG GAATAGCAAA ATAATGATTT TCTAATTCTG TNATTCCTTT CACATTTATT AACTGTAATT

SEQ ID NO:1094: (Length of Sequence = 414 Nucleotides)
GTCAGTNTTC CATAACTGTT TCCTGCTGAC AAAGGGGCAG TGGTGATGGT TCTNTGGGTC TTGGCCTCTT GCTAGCTGTC
ACAGCAGGAG GGTGGCTTTN TGGATTGGTG AAAGTGGTAT CCAGCCAGGT CCAAGAGAGA CAGGGGCAGG GTTTTNCCAA
TGCCAAATAT ACTTCAGCAG TAGAAGCCAC AAGATTACAT TATTAAATTG TCCCAAGAGT CCCCCAGTGC AAACCCCAGC
TGAACGCCAT TTAGTTATAT NCTGGTGCGT TTTCCTTCTG CAGGAACTCA AACCAAGGTT TCTTATGTGT GCTTGAGTTG
GGGGCCAGAG TGACAACTGG TAGAAAACTA TGTTATTCCC CAGCTANGAG AACAGAGGGG AGGGGTACAT GATAGTAGGG
AGTCAAGTTT ACAA

SEQ ID NO:1095: (Length of Sequence = 387 Nucleotides)
GATCTGGCAA CCAATTATGT AAATAGTCAT ATGAATCCTT CAGAATGGAT AACACAGCTT TNCTGACTGG TGTGAAATAG
TTTTCAGGTG CTCATTCTTT ACTTCATTAG CTTATCTTAT ATCATTAGCT TATCCTCCAT TCAGGTATAA CAGATCTTTT
TTTTCTGATA AATATGGCAG TTTAGGGAAA TAAACTATGG CATAATATGC TAGGCCATTC TTCTAGGCCA CGCTTCTTTG
ATTGTAACCT TAAACCCTTT ATCAGAACCT AAACAACTTT TCAAAGATC TATACATATT TNNATCCAAT GTTTAAGGCT
ATGAGTAATT CATTATGGTC ACTCTTCATT TTTNTCACCT GATAATGATC TCGNCAAAAA TGTTGAG

SEQ ID NO:1096: (Length of Sequence = 416 Nucleotides)
AACTTAAAGC TTTAGAATGA TTGAGGTAGC TCAGAGCAAA AACCAAAAGG AAAGGTGATA TGTAGATGTC TGGGCACTCA
CATCATAGGT TTGGATAGCT AGTTTAGGAG TAAGTGAAAC ATTTTAGAAG AGCATTTATG TTAACCTTGA CAATAGGATG
GGAGATTCTT AACCCCCCTT GTAATATGCA CCGATTGATT CTNAGTTAAA ATACACCACA GTGACAGTGA TATCATCCCT
GTACATCCTC GCCAAGTCCT CTGGCAATGT CAGCATCGCC GNCAGCCGCT CTGCCTCCAT CTCCCCATAC TCATTGTTCC
CGATCGCATC TCTGATCAGC CGCCTGGCTG CATTTTGCTC AGCCTCGTGC AGCTCGCTGG CTTTCCTCTG CAGCAGCAGG
CTCTGCAATG AGNCCC

286

SEQ ID NO:1097: (Length of Sequence = 406 Nucleotides)
CTGACCTCGT GATCCGCCCA CCTCGGCCTC CCGAAATGCT GGGATTACAG GCGTGAACCA CTGCGCCCGG CATGATTGGC
ATTTTGGGCT AAAATAGTTTC TGTCCACAGG ACCGTCTTGT GCAGTGCAGG TCTTTTAGCA TCCTGGCCAC TCATAGTGCC
CGTGGTTCTC AGTAGAAGCT GTAGAGGATG TTGGGAAATT GGGGTGGGTT GGTCACAGTG CCTGGCATCT GTCTCAGGGT
AAGGGCTTNG GAGGCTCAAG TGCAGAGTCG TATCTGGATG CCAGCAACAC CCTGTTGAGA AACTTTCTAC TATGGTATGC
TCATCATTCT CTGAAGATGT CAGGGCCTGT TTGTTTGTTT GCCTGTTTCT CTCACTTTTG CCTTATAATC AGTTCTTCCT
TGTTGG

SEQ ID NO:1098: (Length of Sequence = 326 Nucleotides)
GGCCCGCCCG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA CCGCGCCCGG CCATGTAACA ACTTTTATAA
AGTTATGATG TGATGAGTTT TGGTGTAATG TTTTTCCCTC CTCTACCTAA AACCCTTCAT GCCTTCCCAT TGCTCTTAGA
AAACACTCCC CAATCTGAAA CATGACCATT TTTCGTTTTN ACACCCAGAT TGCTCCAGAC TTGGTCAGTT GGTGTCCCTC
CAAGCTGGTG CTGGTGTCCT TCCGNCATNC CCCTATTAGT TTTTGAGCAC CTGGACCAGT AAGGTGTTCA GTCTCACTTT
GCACTT

SEQ ID NO:1099: (Length of Sequence = 342 Nucleotides)
GAAAACGAAC AAGTTTCAGC AGTCTAGCCT TTGGATGACC TATTTGAAAA CCACTGAAAG TCGTGGAGGA ATGGGCAAGA
ACCACCTCAT GATTCTNCAG GCCATTGCTA ACGAACAGCT CATTGCTACA ACCAGTCCAG AGGTTTTATT CCCTCTACTC
CGAGCAATGA AATAGACCTG AGTTATGCTT CCTTTCATTT AATTTCTGCA GATAAATAGT TTCCTGAGCA ATGGATGCTA
TGCCTGGATA CCAGTCTCCA CTTTGCACGC CGGAACTGCC TTGGGNCCAC AGTTACAGAA AAAATGTAAA CTCAGAGTGA
TCCTTGTGTA TATTGCTATA GA

SEQ ID NO:1100: (Length of Sequence = 301 Nucleotides)
ATCGCTTGAG CCCAGGAGTT CGAGACCAGC CTGGGCAATG TGACAAAACC CAATCTCTAC AAAAAATACA AAAGANTTAG
TCAGGTATGG TGGCGCATGA CTGCAGTCTC AGCTACTTGG TAGGCTGAGG TAAAAGGNTC ACCTGAGCCC GGGAAGTAGA
GGCACAGTGA GCCATCATTG TGTGCCACTG GACTCCAGCA TAGGGAAGGG GACTGAGACC GTCTCAAAAA AATTAAATAG
AAAGTCTTCT TTTTTTAAAA TNCTGCAATT CATGAGAAAA CTGCACTCAC ACATAGTGTG T

SEQ ID NO:1101: (Length of Sequence = 300 Nucleotides)
TTAAGTCAAA GGCTAGAAAT GATTAAACTT AGTGAAGAAG ACATGTCAAA AGCCGAGAGA GGCCAAAAGC TAGGCCTCTT
ATGCCTAACA GTCAGAAATG CAAAAGNAAA ATTATTGAAG GAAATTAAAA GTGAAACAAC CTTATTGCTG ATATGCAGAC
AGTTTTAATA TTCTGGATGG AAGATCAAAC CAGCCACATT TCCTTAAGTC AAAGCCTAAT CCAGAACAAA ATCCTAACTC
TCTTCAATTC TTACGANGGC TGAGAGAGGT AAGGAAGTTG CAGAAAAGTT TTGAACTAGC

SEQ ID NO:1102: (Length of Sequence = 174 Nucleotides)
GAGATCGAGA CCATCCTGGC TAACACGGTG AAACCCCCTC TCTACTAAAA ATCCAAAAAA ATTAGCCGGG CGTTGCGGCT
GGCGCTTGTN GTCCCAGNTA CTCCGGAGGC TGAGGCAGGA GAATAGCGTG AACCCTGNGN GGCGGGNTTG CAGTGAGCCC
GAGATCGGGC CACT

SEQ ID NO:1103: (Length of Sequence = 260 Nucleotides)
ACAAGGTCTT GCTATGTTGC CCAAGCTTGT CTCAAACTCC TGGTCTCAAG CAATCCTTCT GCCCTGGCCC TCCCAAAGTT
CTGGGTATTA CAGGTGTGAG CCAGCACTCC TGGCCCATCA CAGTCTTAAA ACCAAAAGTT CTGTGTCCGA GGAAAACCAG

CGCTCGTNTG TCCCACACAA ATGTTTAAGA AGTCACTGCA ATGTACTCCC CGGCTCTGAT GAAAAGAAGC CCCTGGCACA
AAAGATTCCA GTGCCCCTGA AGAGGCTCCC TTCCTCCTGT GGGCTCTCCT AGAAAACCAG CGGGACGGCC TCCCTGCTGA
TACCGTCTAT AACCTTAGGG GGCCCTCGGG CAGGCAAACT CATCTCGGTG ATGGCTGTAG ATGCTAACAC TGGCCAATTC
AATGNCACAN CTACTGGTTA CCCCTTTTGA GGGGCATTTC TCCAGACAGA AGGCCCCTTG AAGCCTAGGT AGGGCAGGNT
CAGAGATACA CCCGTNTTTG TCTCGAAGGC TT

SEQ ID NO:1110:   (Length of Sequence = 218 Nucleotides)
GTTTTNTTCA TTTATTNNCT CCCCATAAAA CAGTATGTAC AAGGGTTTGA TTCAGGGGAG AGAAAGGATA TATGAAGACA
CATTCTTCCC TCTTCTATTC TCTTACCTGG TTAGAAATAA ATAGGCATAT AGTCCNGTTT ATTATGGGCA GGAAGGTAGG
TAAAGATCAC CTAAGTNCTT ATGGCGTGTT GGCTTTGGCA CATGGAGAAT GAGTTTTT

SEQ ID NO:1111:   (Length of Sequence = 211 Nucleotides)
TTTGCTTTAT GAAGAAGCTG GCCTAGGTAG GGTTACAAAT GGGTTTTACT GAACTTAAAC AGCTAATTGC TACATCTCTG
AAAATAATCA GAATAGAAAA ATAGATGGAA AAATTTCAAA CCCACTGTAA GAGACTAACA TAAATCCAAT TCCAAAAGCT
GTTAATCATA CCATCTAAAA AGAAAACTGT CGACTAATCA TGTGTTTACA A

SEQ ID NO:1112:   (Length of Sequence = 360 Nucleotides)
CCCTATAATA GTCCCGTGAA TAGGGCTAGC AGTGGGATTT TTGTGTTATA GGCGAGGAAA TAAACACTCC TTTTGCTGAG
ACTAAAGAGC CAGGTTGGGG TCTCTGGACA CATAGTGCAA TCAAGGGAGG CTTAAGACAG CAGAGGCCCT CAGAGAAGAC
GTTCATTCTC CCAGCTACTT GCTAAGCACG TNCCGTGTGA TCTGGGCAGT CCTGGGCACA CCAGTGGTGA AAATACATGG
TCCTGCCTGC CTGCCTGGAG CTTCTATTTT CCTNATGGGA GAATGCTGCT CCATTTTGTT ATTGGAGGAA CTTTTTGCAA
GCAAAGCCTN TTTGGGGAAA AATGGCGGGC TAGAAACCTG

SEQ ID NO:1113:   (Length of Sequence = 448 Nucleotides)
GCGGGTACTG CGTTAGTGAT TAGAGTTTTT NCCCTGCCGG AGGTGGGATA CACGGTAGCA TCATGGTCGA GGAGGTACAG
AAACATTCTG TACACACCCT TGTNTTCAGG TCGTTGAAGA GGACCCATGA CATGTTTGTA GCTGATAATG GAAAACCTGT
GCCTTTAGAT GAAGAGAGTC ACAAACGAAA AATGGCAATC AAGCTTCGTA ATGAGTATGG TCCTGTNTTG CATATGCCTA
CTTCAAAAGA AAATCTTAAA GAGAAGGGTC CTCAGANTGC AACGGGATTC ATATGTTCAT AAACAGTACC CTGCCAATCA
AGGACAAGAA GTTGAATACT TTGTGGCAGG TACACATCCA TACCCACCAG GACCTGGGGT TNNTTTTGAC AGCAGATACT
AAGTTCCNGA GGATGCCCAG TGATCAGNTG CACAGTCCTA GCGGTGGC

SEQ ID NO:1114:   (Length of Sequence = 268 Nucleotides)
GGCCGCCAGG TGGTGCCATG NTCTTNTGTN CTGTGCGTCG GCGATGTGG TCATCAGCCT GAGACCCAGA TAGGCTGAAC
CCCGACTGAT GTAGGTTGCG CACAGGAGGG ACGGAGATCT TGCCTGGGCA GGACGCGCGG GCCGGAGCGC CACTCCCTGG
CTTGGCAGGC ACCATCACCT CGTGGACGGG CCCGTNATAC AGCCCACGGG GCACACCGTG GNTTCTNCGN CAGCCTGTTG
CGAGCTTTGA TCCTCTTGTA GACAAAGT

SEQ ID NO:1115:   (Length of Sequence = 342 Nucleotides)
ATCAGTGCCT TCTTCAGCTC TATCTGGGAC ACCATCTTGA CCAAACACCA AGAAGGCATC TACAACACCA TCTGCCTGGN
AGTNCTCCTG GGCCTGCCAC TCTTGGTCAT CATCACACTC CTCTTCATCT GTTGCCATTG CTCCTGGGAGC CCACCAGGCA
AGAGGGGCCA GCAGCCAGAG AAGAAAAAGA AGAAGAAGAA GAAGAAGGAT GAAGAAGACC TCTGGTTCTC TGCTCAACCC

289

AAGCTTTCTC CAGATGGAGA AGAGACCATC ACTGCCTGTT TAGTTAGGCA GGAANGCAGA GGTGTTTCCT TTCTGGGGCT
AAAGNCTCCT TCTGACCACA CA

SEQ ID NO:1116: (Length of Sequence = 416 Nucleotides)
CACCTTTGGG AGGTAGGGAT CATAGTTCCA CTTCATTGAT GAGGAAAACT GTAGTGCAGA GATGGCATAC ACTGTCCAAG
AACATGGTGG TGGATGGAAC CCAAACCCCA ACTTTTGCTC CCATGTNCTC TGTCCACTGG CTATGGCTCT TGCCCCTGTG
TACAGATACA GGCTCTGGAC AAGTTCACCA AATCCCTTAG GCTTCAGCCC CCTCATCTGC AGAATAGTGG CTTGGATTCC
ACCATCTTCA AGGTCCCTGC CAGCTTTNAT TTATTTAAAT TTGGATTTAT TAAGCAGGAA·AAAAAGTAAT GGGAGTTTGT
GGGTACCAAT GGATTAAAGG GGGTNAAATC TGGNGGCTNG TGAGTAAAAT TAGGGTCCCC AAATGG
                                386

AAGGACCGGG ATTCTGATGA AGCCGTGTTT CTCACTGCCT GAAGTTTCCC TTTGGAGTTC CAAAGTAAAG GACACATAAG
CAACACTTCC AAAAACAAGG GAACAAGGTG GTTTATTGTA AAAACAGGAA ATGGTGCATG TCATTGAGAA CTATTTTAAT
GCAGCTATGA AAAGGGAAAA AAGTGCCCAG TTCTTGATTT CTTAGATACT GAAGAGGACG TAGCATTTCA TTTATCAAAT
ATAAGGAAAA TTATTCACCA TTTTGAAGCT CACCCTAGAC TATGAAAATT ATATTCACTG CAGAGCAATT ACTTCTGTCA
TTACCTGAAG TGATCAGTAT CTATCTTCCT TGTCATAGCA TGCATCTCTC AAAAAGGCCT CCACTCCTTT CCCTCACATC
TGTGGTCATC ATGATT

SEQ ID NO:1118: (Length of Sequence = 379 Nucleotides)
GACAGCAGCG TGTCCAGGGC GGCTGTGGAG GTGTTCGGGA AGCTGAAGGA CCTAAACTGC CCCTTCCTCG AGGGTCTGTA
TATCACAGAG CCAAAGACAA TTCAGGAACT GCTGTGCAGC CCCTCAGAGT ACCGCTTGGA GATCCTAGAG TGGATGTGTA
CCCGGGTCTG GCCCTCACTG CAGGACAGGT TCAGCTCACT GAAAGGGGTC CCAACAGAGG TGAAGATCCA AGAAATGACG
AAGCTGGGCC ACGAGCTGAT GCTGTGTGCG CCAGATGACC AGGAGCTCCT CAAGGGCTGT GCCTGCGGCC CAGAAGCAAG
CTACACTTCA TGGACCAGTT GCTCGATACC ATCCGGAGGC CTGACCATTG GGTGCTCCA

SEQ ID NO:1119: (Length of Sequence = 233 Nucleotides)
CAATATTCAA GAGTCTTTAT TGAAGACTTG AGATGGGACT TCCAACTCAG AGGATGTGGG AATCCCAGCT CAAATGATAC
AGGATAAACT GGGATGGGCT AGGATGGACA GGCTGTGGAT ATGGGAGTCA TGGGTCAAAG TCTTATCCCA GATGGCTCCA
GGTACAGTGG GCTTCCTGGG CTGGAAGCTG GGTCCTCCCC ACTTCATTCT GCTCAAAGCT TCTTGAAGGA GCT

SEQ ID NO:1120: (Length of Sequence = 325 Nucleotides)
GAAAAAACAA CCATACCCTT NCTTTTGAGG AAAACTTACA AACTTTATAA AGAATAAACA TGAATCTNCT TAGAAAGTTC
CAAGATAACA TACACAACTG ANTCACCTCT TCATATATAG GCACCACACA CATAAAGATG TAGCCTAAAT CACAATCACT
TCTCACCAGG GATGGAGATA GGAATTTACA TTCTTGACTT CATTAAGTCT CTAATTTGGC AAAAACCTCC AAGCCTTTTA
TACACATGCT GCGTGTAGGC CAGATCTCAC TCATTCTTAT AATTGTGCAA ATAATATGGA GACCAAAAGG GCAGGGTTTT
CATTT

SEQ ID NO:1121: (Length of Sequence = 161 Nucleotides)
ATTAGTATTT TTGTCTGTAT GTCCTAGCAC TGTTCAACAA CAAATTTTNC TAGTTCTTGT TAATTTTAT TTGTTAAACA
ATGGAAGCAC AATGTTATAA GGAAAGGTAA TTTTAAGCTA ACAACCAGTG CACAGCCTCA GGTTTTAAAT TACAACCACA
G

290

SEQ ID NO:1122:   (Length of Sequence = 181 Nucleotides)
CATCTTTTTA CATCAAAGTA CTACCAAGTA AAGAATTTAA AAATTACTTG TCTAGTCATG ATATATTTTC CTNCTGCTGC
TGAAAAATCC CTGTCTTATT ATTTCATGTN CCTTTATCAT TCATTTGATG ACACTGACAG CAACTTGCTG AACAAGTTTA
AGAATAGCTG ATATTTACTG A

SEQ ID NO:1123:   (Length of Sequence = 174 Nucleotides)
CCCTAGAGTT AAATTTCACC CATGAAACAT CAGCCACATG TCATATCAAT TCAAGTGTGT AACATTGATA TAATCGGGTA
CACCACAGCA GCACTGACAG AAACAGAAAT GATTCAGAGA AAGCCAATTA AAACAGCCAG GGATAAAGC AGATCTGTAT
GACATTAGCT TTTT

SEQ ID NO:1124:   (Length of Sequence = 232 Nucleotides)
CTTTTAGCAG AGACGGGGTT TCACCATGTT GGCCAGGATG GTCTCTTGAC CTCGTGATCC ACCCGCCTCG GCCTCTCCAA
GTGCTGAGAT TACAGGCATG AGCCACCGCG CCTGGCCCAG GGAAGGCATT TTTNAAGAAA TAATAGTTGA ATTGAGATCT
GATAAAAGAA GTAGGAGCAA AATNGGGGGG GTGCAGTTTT CCAAGAAGAG AAGACAGTAC ATATAAAGGG CT

SEQ ID NO:1125:   (Length of Sequence = 233 Nucleotides)
GATACTATGG GTTCAGTGAC ATAGAGACAC AATTGAATTA GCAATGAGCT TCACTCAGGA GCCAGAGAAT GGGTTTNTNT
CTAAGAGATG TTTTAAGTAA CATTTAAATG GCACTGCTGA TTGATACCAG CATCAGGAAG CTGAGGACAA GAGCTCTCTG
AGAAGGAAGT TGCCATATTA CAGAAGTGAG GTGACCAAGC ACTTNTTGTA GGTCTGTACA TTTAGACATT AAT

SEQ ID NO:1126:   (Length of Sequence = 258 Nucleotides)
TTTTTTTTTT TCCTAGGGGC CGCAAGACGG CTAATTTATT ATAATTCCTC CGCCGCAGTT GCCCTCTGGC GCCA..JTCGC
AGAACGGAGC GCCCGGGATG CAGGAGGAGA GCCTGCAGGG CTCCTTGGGT AGAACTGCAC TTCAGCAATA ATGGGAACGG
GGGCAGCGTT CCAGCCTCGG TTTCTATTTA TAATGGAGAC ATGGAAAAAA TACTGCTGGA CGCACAGCAT GAGTCTGGAC
GGATTAGCTC CAAGAGCTCT CACT   264

GTGTGAATAG GCAAGCACTT TGTTTGTTGT ACTAAGGAAC TCAAAATGAT AGGCTTTTTG TCACCATGTG CTTCCAGGNT
CTCTGTTGCA TGAGCAGAGA TAGAGGATCT TGCACAAACA ATTAAATGCT CTAGCCATAA GTAGTGCAAG TTTCCNTTGC
TTGAAATTTA CTGCTGATAG CCACTTGGNC ACACCTTACT TCCAGAGGCT AGGAAGTACA GTTTTCCCAC AGTCTAAGAA
TGAAAGAGNA TTAACCACAG TAATGCATAG CACTCATACC ATGGATGACT GGATAATTTT AAAAGAATGG GAATATGCAA
G   321

ACAGCTCAAT GACTTATCAC AAAGCAAAGC CCCAAGAAGT CACCACCCAG CTCCAGAAAT AACACATTGA AAAGCTAGAA
AAATCTCAAA TTGACATCCT AACACCACAA CTAAAGGNTC TAGAGAACCA AGAGTAAACA AACCACAAAG CTAGCAGAAG
ACAAGAAATA ACCAAGCTCA GAGCAGAACT GAAGGCAATA AAGACACAAA AAACCTTTAA AAATAGTCAA TGAATCCAGG
AGCTGTTTTT TTGAAAAA

SEQ ID NO:1129:   (Length of Sequence = 163 Nucleotides)

291

CAGTGGTACA GCAGCAGCAG ACACGCATCG CAGAGCTGGA GAAGACGTCA GCTGAACACA AACACCAGCT GGCGGAGAGA
AGCAAGACAT CCANCTGCTA AAGGCATACA TGCATGCAAT CCGCAGTGTC AACCCCAACC TTCAGAACCT GGAGGAGACA
ATT

SEQ ID NO:1130:   (Length of Sequence = 382 Nucleotides)
TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTACTGT TCAAACAGCA ATGTTTAGTT GTACAACACA TAAAGTCTAG
CAACAATTAC AGGNCCAGTT TGAGTGTCTG TTTGCTTGTT TTCAATTGGG AAATTTAACT GTAATGTCAC CGTAAGATTG
GCTGGGACTG GTAACATTTA AGAAACGGGT TGTNCTTGCA TCCCCTAGGC GTGGGCCTCT TGCTCCATCA GGACTTGGTT
GTAGATGAAT GGCCCACAAG TCACCAGCCT TTGAGCAAGT TGTGTCCAGG TGGAGACAGG AAGAGGGTGG GCAAAGGGGA
ATTCTATAAA GACACAGTGT NTGGGGCAGT GGCAGTCAAC ATTCGCAAAC ATTCATGCAT CT

SEQ ID NO:1131:   (Length of Sequence = 406 Nucleotides)
ATGCTAATTC AGGCTCCACA GATAGTNCTG GTGATGGGGT TACATTTCCA TTTAAACCAG AATCCTGGAA GCCTACTGAT
ACTGAAGGTA AGAAGCAGTA TGACAGGGAG TTTCTNCTGG ACTTCCAGTT CATGCCTGCC TGTATACAAA AACCAGAGGG
CCTGCCTCCT ATCAGTNATG TGGTTCTTGA CAAGATCAAC CAACCCAAAT TGCCAATGCG AACTCTGGNT CCTCGAATTT
TGCCTCGAGG ACCAGACTTT ACACCAGCCT TTNCTGATTT TGGAAGGCAG ACACCTGGTG GAAGAGGCGT ACCTTTTTTG
AATGTTGGGT CACGAAGATC TCAACCTGGN CAAAGAAGAG AACCCAGAAA GATCATCACA GTTCTGTAAA AGAAGGTGTA
CACCTG

SEQ ID NO:1132:   (Length of Sequence = 400 Nucleotides)
ATTTTTGGTT ACTTCAGGCA GGAGGGTAGA CATAGCACTT ATCTGGATTG GATGTAGCCA CAGGATTAGA ATTGTTGGGT
CATAAAATAT GTACATGTTC AGCTTTAGTA GATCTTGCCT AGAGTTTAAA AAATTAAAAA TTAAAATATT TTTTAAATTA
CAATAAATTC AGCTAATTTT AATTTTAGAT AATTTTTATA ATGTAGTTGA TCTTGGTTTT AACCAGAGCA TGTNGCTGGA
TTTTNCTCCC CAATCGAACA CAGTAGAGAG AGAAGGTGGC GGGTTCTTAG TGATACCATG CACTTTTTTT TAGAACTTCA
GTGCTGTATC CCTTCATTTA CAATGTATGA TGAAAAATAC TAAAGAAGGG ATNGTGGTGG TGGTGAGGGA GGCAGGAGAG

SEQ ID NO:1133:   (Length of Sequence = 347 Nucleotides)
CCCAGGGCGC GCCATCCATG GACGAGCTCA TCCAGCAGAG CCAGTGGAAC CTCCAGCAGC AGGAGCAGCA CTTGCTGGCG
CTCAGACAGG AGCAAGTGAC AGCGGCCGTG GCCCACGCGG TGGAGCAGCA GATGCAGAAG CTTCTGGAGG AGACCCAGCT
AGACATGAAC GATTTTAACA ACCTCCTGCA GCCCATCATC GACACGTGCA CCAAGGACGC CATCTCGGCC GGGAAGAACT
GGNTGTTCAG CAATGCCAAG TCCCCGCCGC ACTGTGAGCT GATGGCCGGN CACCTCCGGA ACCGCATCAC GGCTNATGGG
GGCACACTTC GAGCTGCGGC TGCACCT

SEQ ID NO:1134:   (Length of Sequence = 389 Nucleotides)
GGTCCAGGCC TGCAAGACTT GCCTAGTGAG AAGATATAGG AATGGGAACC CAGGTAACAG TCTGGCCACT TTNCCATAGG
GCTGCTGCAG TATGCCCAGG GCCCGCTCCA GTCTCTAGTA GCCTCANATT TTCCAGTACC TGGAGTTATC ATCAGTGAAG
CCTGTGAAAC AGCAAAGATG GCAGCCTACC GCTCCCTTTG GAAGCTTTGC CCTAGGGAGG TATGAATGAN CTTNTTGCTG
CCCCANACAC ACCTGTAGGA GGTGGCTNGA GACCCCAGTT TGGAGCTTTT TCCCACTGAG GAGGAATCGC ATTCGGAAAG
TGCTTAAAAA AGCAGTCTGG GCCTCATTTT TATAGAGCAG CTGTGCTAAT GCTGAGGGGT CCACAATCA

292

SEQ ID NO:1135:   (Length of Sequence = 402 Nucleotides)
GCAGAGGCTT AAAGAGTGCT TATTCACTGA GGCTTGCCCT TNCTTACTCC TTCCTGGGAA CCCATTTGGC AACAAGTGAA
GAAACCTAGG CCAGCCTNCT TGAAGATGAG GGACCAACGG AGAGAGAGGC TCTGCTGTCC TAGCCCTCCC ACAGAATAAG
TAAGCCTAGC CAACACCACG TGGAGCAGAG ATGAACCATC TCAGTTGAGC CCAGCCCAAA TTGCTGACCA AAAGAATTGG
GAACAAATAA ATAATTATTG TTTTAAGCTA CTGTGTTTCT GGGTGGTTTT GTATATAATA GTAGCTACCT GATACATTGG
GATGACCCCA ATTACTTGAA CTTCTCTTAG GCCTGTTTTA TCACGTGCAA ATAGGGGATA ATTTTAGTAA TTTNGGGTTG
CT

SEQ ID NO:1136:   (Length of Sequence = 381 Nucleotides)
CAGGTGCGAG CCACCACGCC CAACCCAGAA CTCTTTTTAT TTTGCAAAAT TGAAATTCTA CCCATTAAAT AGCAACTCTN
CTTTTCCCTT CTCCCCCAAG CCCTTGGCAA CTGCTTTTCC ATTTCTATGA CAATGTCTAC TCTAGATACC TCATAGAGGG
TGAATCATAC AGTATTTGTC CTTTTATGAC TGGCTTATTT CACTTAGCTG CTATATTATT AATACCAGCT TTCTGGGGAT
ATAATTCACA AACTGCAGAA TTGAATGGTT TTNAGTCTAT TCACATCGGA TATGTTTTTG AAGAGACAGT AAAACCAATC
CTTTTTTCCT TAGGTTCTCA GACACACACA TGCTTCTTTA TCTGGCAAGT CCCGTTATAA A

SEQ ID NO:1137:   (Length of Sequence = 325 Nucleotides)
TATTTTTTGT ATAGACAGGG TCTTGTTATG TTGCCCCGAC TGGTCTCGAA CCCCTAGTCT CAAGCCATCC CCCTGCCTTG
GCCTTCCATT CCTCTACTTT ATACCACGGT TATTCACCAA GCTTGTCTTT GTTCAGTGTA CTTCCTCATG GAAAAACTGA
GGTGATATTT ACCCTGGTTT TTCTACCAGT GTGTAACTGT CGCTAGTACC AGCTCAAAAA ATAAGAAATG AATAAATGAG
TGATGACTAT CACTATGTTG CTCAGGCTGG ACTTGAACCC CTGGGTTCCA GTGATCCTCC CGCCTCAGCC TTCCAAGTAG
CTGGG

SEQ ID NO:1138:   (Length of Sequence = 422 Nucleotides)
CAACACACAT TAGCCTTAAC AACAAAGAGC TAATCTTATG TAAAGAACTC TTACAATTCA GAAAGAAAAA GATCCTAGTG
AAAATGTGGG CAAGAGATAG CAAAAAACCA GCCATATGAT AATAATAGTC AATAAGTGAA TCTGAATGAT GTTATCTNCT
TTTGTCATTT TAGAAATACA AATAAAAATG ATGATGAATG CNCTTGCTTA CTAAATTAGC AAAANCTGGG AAAAGATGAT
GATATTCAGG GTCAGATAAA GGGAAAAGGG TGCCCTTCTA TTGCAGTTTG GAAAGTAAAT TGGCACTGAC TTTTAGTGGG
GATAGTCTTG TAATATGGGT CAAANGTCTT CAAATCGTGT CCACATTTTG GGGCCTGCAA TTCCACTTCT AGGGATTTAT
TCTAAGGAAG TACCTAAAAA AT

SEQ ID NO:1139:   (Length of Sequence = 367 Nucleotides)
ATACCGAGAA GCATGCAAGC GGTGGCTCCA CCGTCCACAT CCATCCCCAA GCTGCTCCTG TTGTCTGCAG ACACGTTTTG
GATACACTCA TTCAATTGGC CAAGGTATTT CCCAGCCACT TCACACAGCA GCGGACCAAA GAAACAAACT GTGAGAGTNA
TCGGGAAAGG GGCAATAAGG CCTGTAGCCC ATGCTCCTCA CAGTCCTCCA GCAGTGGCAT TTGCACAGAC TTCTGGGACT
TATTGGTAAA ACTGGACAAC ATGANTGTNA GCCGGAAAGG CAAAGAACTC CGTGGAAGTC AGTGCCAGTG ANGCGCTGGC
GGTGAGGGGG TAAACCTTTT NCATACAGCC TTCGAGGCCT CTCCACT

SEQ ID NO:1140:   (Length of Sequence = 412 Nucleotides)
ATCCAAAGGA TATAGGCAAG CATCAGATAC AGCCAAAGCA TTCTTTTCCT AAAAGAGTCT GAACGCATCT NATGCAACAC
CCAAAAGTAT CCCTTTNCTC CTCGTTACAG TATGTTTTCC CTTTCGAATA AATCATTACT TATTCAACAA TATATGGAAT
AATATCTTAC AAAAGGAAGT CATTTCCATT TTCTAACATC TTTTACATTG CACTAATTAC ATGGTTTAAA TGACTATCCC
TAATCTTCAT CCAACTACAC CCCATGAATT TNAGGTTTAT TTAATCAACC TAGTTAGACC AGATATATCC TTCTAAAATC

ATTTGTAGAT AGAGGATTCT CCTTTTTGCT AGTAAATACC ATTAACATAT TTNCAGANGG CCTGGTCTAG GGTCATTTAT
TCCAGGGCCT CT

SEQ ID NO:1141: (Length of Sequence = 410 Nucleotides)
GTTAACCTGT GGCGCGCTCC GGGTATCCGG CGCCTGANGT TTTAGCTGCG GTGGCGGCGG CAGTCGGGAC CGACTNAAGA
TGTCATTTGT CAGAGTGAAC CGCTGTGGTC CCCGANTTGG TGTAAGAAAG ACACCGAAAG TAAAGAAGAA GAAAACTTCA
GTGAAACAAG AATGGGATAA TACCGTGACT GATCTAACCG TTCATCGGGC AACTCCTGAA GATCTGGTAC GCCGTCATGA
AATACACAAA TCGAAGAATA GAGCATTAGT ACACTGGGAA CTCCAAGAAA AAGCTTTGAA GAGAAAATGG AGGAAGCAGA
AACCAGNAAC TTTAAATCTT GAGAAAAGAA GATTNGTCTA TCATGAAGGA GGNTTCTTTC TGATCAATAC CAGATGCAAA
GATGTGTTGG

SEQ ID NO:1142: (Length of Sequence = 392 Nucleotides)
TTTTTTTTTT TTTTTTTTTT TTTTCCNGGG ATTGAATGTC TTTATTAAAT AAACGAGTAA ATGGTAGCAC AAATCACCAT
CAATATTTTT GGAAGGATTG GGGACAAGAT GTCGAGTCAG AATATAATTN TCCATTTCAG GGTCTCAATG TAGCTGAAGA
ACTGTGCCCA CTGATCAGTA TTACGTATTG CAAATGCAGG AGGTAAGGCT AAAATAGGAC TTATGCCGTT CAGAAGATTG
ANTTTGAAAC CTTAAAAACT ATCATAATAG TAGGAATGCA TGTTAAGATT TGATAACTTT CTTTAGCTAG AGTTTTCAAC
CCACAGTTAG GAGCAAAGTT GTAAAGTGAG TAGGTNTGAA GAAGGGACAC TCTTTTGAGA AAAGAAATTN GC

SEQ ID NO:1143: (Length of Sequence = 200 Nucleotides)
ACTTCCTCTC TCCTGGCATC TGCTATAAAA ATAAGAAGGA GCAAATATTC TTGCCTCTTT TTATCACCTG ANCTGAAAAC
CCATTGTAAC TGCCATGAAA ATAAGCACTG GTCCATGAGA CCAATGCCCA GAAAATTCAG GCTAAGATTC CTGGAAAGTG
GGCTGTGGGC ATTATTTAAA ACACACACAC AAAATTTACC

SEQ ID NO:1144: (Length of Sequence = 333 Nucleotides)
AACAGAAGCA TGTTATTTCA TTCCCATTCC CAGAAAGGGA GTTAATGAAG ATAAAAATTT ATTTTTTAAG GTCTTTATTG
AGAGAAACTT TGTTTTCTGA TATGAACTAT TGCAGATGTT TTTATAAATA CTTTCATTAA AATGATGTAA ACAGTAGTAC
CCAACACTGT AAACTCAGTG AAAATAGTAA ATGATTCTTT TATTACTAAG ACTGTCATGC ATTCTGAAGC AGTTGGCTTT
TTTTTAACCA TAGGAAGTCA TTTCCCTCTA GCTCCTTCCC TTCTACTCTC CTGCTCAGAC CATTAGTAGG TACTTTGTTA
AATAAAAAAC TAG

SEQ ID NO:1145: (Length of Sequence = 225 Nucleotides)
TGGGTTTCTG ATCCGAGAAA AATTGAAAGA CAAACATGGC TGGGGGAAGC AAAACGCTGA CACACAATTC AGGTGGCCCA
GCAGTGCTGA CCTGCAATCC ACCCCACCCC AAGGCAGCCC TTTCAATCCA AAGTGGACAG AGTGGGCCTT ATCCCAGANT
CACTCAGGAA GCTTCTTCAA ACATATGACT GCCACACCCG CCCCCAAGGT TCAGAAACAT CTTCG

SEQ ID NO:1146: (Length of Sequence = 223 Nucleotides)
AAGGNACAAT ATTATTCTAA ATAATTTAGA TTTGGAAGAC ATCAATGACT TTGGAGATGA TGGGTCCTTG TATATTACTA
AGGTTACCAC AACTCACGNT GGCAATTACA CCTGCTATGC AGATGGCTAT NAACAAGNCT ATCAGACTCA CATCTNCCAA
CTGAATGTCC CTCCAGTCAT CCGGGTGTAT CCAGACAGTC ACCCTAGNGA GCCTCGGGTA ACT

SEQ ID NO:1147: (Length of Sequence = 389 Nucleotides)

294

ATTTCAGTGG CCATTAAGAC CCTGAAAGTT GGCTACACAG AAAAGCAGAG GAGAGACTTC CTGGGAGAAG CAAGCATTAT
GGGACAGTTT GACCACCCCA ATATCATTCG ACTGGAAGGA GTTGTTACCA AAAGTAAGCC AGTTATGATT GTNACAGAAT
ACATGGAGAA TGGTTCCTTG GATAGTTTCC TACGTAAACA CGATGCCCAG TTTACTGTCA TTCAGCTAGT GGGGATGCTT
CGAGGGATAG CATCTGGCAT GAAGTACCTG TCAGACATGG GCTATGTTCA CCGAGACCTC GCTGCTCGGA ACATCTTGAT
CAACAGTAAC TTGGTGTGTA AGGTTTCTAA TTTCGGACTT TCGCGTGTCC TGGAGGATGA CCCAGAAGC

SEQ ID NO:1148: (Length of Sequence = 386 Nucleotides)
ATTAATTGCT TGCCATCATG AGCAGAAGCA AGCGTGACAA CAATTTTNAT AGTGTAGAGA TTGGAGATTC TACATTCACA
GTCCTGAAAC GNTATCAGAA TTTAAAACCT ATAGGCTCAG GAGCTCAAGG AATAGTATGC GCAGTTNATG ATGCCATTCT
TGAAAGAAAT GTTGCAATCA AGAAGCTAAG CCGACCATTT CAGAATCAGA CTCATGCCAA GCGGGCCTAC AGAGAGCTAG
TTCTTATGAA ATGTNTTAAT CACAAAAATA TAATTGGCCT TTTGAATGTT TTCACACCAC AGAAATCCCT AGAAGANTTT
CAAGATGTTT ACATAGTCAT GGAGCTCATG GATGCAAATC TTTGCCANGT GTTCAGATGG GGCTAG

SEQ ID NO:1149: (Length of Sequence = 364 Nucleotides)
GGCAACAGGG TGAGACTCCA CCTCAAAAAA TAAAAAAAAA GAAAGATATT ATTCAAGAAA AGAACTTAGG AGCCAGGTGC
AGTGGCTCAT GTCTATTATG CCAGTACTTT GGCAGGCCAA GGCAGTAGGN TCACTTGAGG CCGGGAGTTC AGAGACCAGT
CTGGGAAACG TAGCAAGACC TCGTCTCTAC AAAAAAAGTG TTTAACAAAT TAGCTCAGTA TGGTGGCACA TGCCTGTAGT
CCCACCTACT CAGGAGGCAG AGGCAGAAGG ATGGCTCGAG CCCTGGAATT CAAGGCTGCA GTGAACTAAG ATGGTGCCAT
TGCACTCGNG GATGGGTGAC AGAGCAAGAC TCCATTGCCG CCAG

SEQ ID NO:1150: (Length of Sequence = 267 Nucleotides)
GACAGGTGTA ATCTAAGCTT AAATAAACCC CCCGGAGGCT GCACAATTNC TTGGCATCTC TCCCCTGCCC TCTCCATCCG
CATATTCATT TTGGAGTTTG GAGAAGTATC TAGAATCTNC TCCCACCCCA AAATGCCCAG CAGAGCCCCC CCGCCGCCCC
CGCACCCCTT GGAGCTGCGG CTTGCTGAAT CGTTGAGATG TCTGANACTG TCGGGGTTCC CTACCTAGTG CTTCAACCAG
ATCACCTCAC TTTTGAGTTT CCTTCCT

SEQ ID NO:1151: (Length of Sequence = 386 Nucleotides)
GGAAGACGAA GGAGGAGTAA AGGCATGTNT CACATGGCAG CAGGCAAGAG AGCGTGTGCA GGGGAACTGC CCCTTATGAA
ACCCTCAGAT CTCGTGAGAC TTATTCACTA CCATGAAAAC GGCACAGGGA AAACCTGCCC CTAAGCTTCA GTTACCCCCG
ACAGGTCCCT CACATGACAC ATGGGGACTA TGGGAGCTAT AATTCAAGAT GAGATTTGGG CAGGGACACA GCCAAACCAT
ATCAGATACT TACCACATTA GACACTGACA GACAGCTCAC CACAGATTCT GGGCTCTATT CAAGGTGTTG ACTTTGATCT
TTTTCCAGTT GTAAATGTTT CATCCAAAAA AACTGTGATT TTGGCATAAC TTTTTTCAAG AGTTGC

SEQ ID NO:1152: (Length of Sequence = 239 Nucleotides)
GCAATCTTTT GAGTGACTTA CTTTGAGTCT TTGTCACCTT TCCTCTGATT TTTTCACATG GTTTAACTCA GTGTACCCAA
GAGTACTAGG TGCACTCAAT TCTGCTATTA ACTCTATAAG CAAGTNCTTA AGAAAGTTAA TGTTAAAAAA TAATCTTAAA
ATTGTCTTGA TAGGAAAAAT GTATTTGAAA TTAAAAAAAA TTCTTATGTT GACTTCTTGG TTTTGAAACA ATGAATATA

SEQ ID NO:1153: (Length of Sequence = 275 Nucleotides)

CAACCTCCTC TTCAGTGTCA AAAAAGCCAC GGTTAGACCA GATTCCTGCC GCCAACCTTG ATGCAGATGA CCCTCTAACA
GATGTATGTT TTGTTTCCTC CTTTCATCTC TAATAATTGA TTTACCATGT TTTTCTAAAA TACTTGTTAT GTCTTTNCTT
TAAGAAGTGA CATATATTTA TGTTTAGTTA CTGTTATTCA AATATAGCCC TGACCTCAGT GCTAAACTTT ATAGTTGATT
TTAAAATCAA AAGTATTATT TTGTGGGACT TTAAG

<u>SEQ ID NO:1154:</u> (Length of Sequence = 203 Nucleotides)
CCTAAATCTT AAACCTTACA ACAGTTAAAT AAGACCCCTT TCAAAGGGAT TAACACACTG AATATTATAT ACATACAGAT
TTATATTTAT GCGCTATACA CATATATGGN CTTTATCTGT ATATAAATAT GTGATGATAA TGATAAAAGG ATAATGATTA
CACGTAGGAT AAACATTTAT CAAAAATTGT ACTATAAATA ATA

<u>SEQ ID NO:1155:</u> (Length of Sequence = 343 Nucleotides)
GAAAACAAAA CACTAAGCTA TTTTGGAACA ACTGTTCTAC ACAGAAGAGA GCTTCTCTTA ATTTAAAAAA AAAAAAAATC
CCAAATAGGC ATTTTTAGGC ATTAACCAAA AAAGAGAATC CAAATGAAAT ATTATACTTG ATGTTCAATT TTAATAGCAT
CTTGATAAAG GTATGCTTCC TTTCATTTGA NTACATTTCT GNACATGTAT GTTATAAAAT CCAGGNAACA GCCAAACCAC
AAGTTAACTC TTAACAATGA ATATACATAG TTAACCCTAT AGTAAGCAGC CCCTTTGAAA AGCACTGATG CACCCAACAN
TTATATGGTT CCATTTCATA AGG

<u>SEQ ID NO:1156:</u> (Length of Sequence = 396 Nucleotides)
CCCACCAATT GCCATTAAAC CTCCCAATCT TTACTGGGAG GNTCTCTACT TACTGTTTCA AGGCAAAAAG ATGATTAANC
TATCTCACAT GGTTGTAATT TGGGCCTAAA ATAAATGACT CTAGTGGTAG CATTTCATGT AGGCAGGTCC AAGGAAGACA
GATTTGTAGA CAGAGTTGGG AAAAGGGTCA AAGAGCCAAT GAGTCTCCCT ATCCTGAGGG ATGCCTTGAC GGAGCCACAG
CATGANCTCA TGTTTTCCTG AATCCATCTC AGTTCATGTG ACAGGATGGA AATGCTTCCT TTCTTAGCCA GTGTTGCTTG
TAACGAGTTC CCTGCAGCTC AGGGAAGGGA GCAACATGTA CTGCTTTGTT GCTTCCTGTA TAGAGAAGGC AGGAAT

<u>SEQ ID NO:1157:</u> (Length of Sequence = 269 Nucleotides)
CAGGGTCTCA ATCCGTCTCC CAGGCTGGAG TGCAATGGCA CAATCTCAGC TCACTGCAAC CTCCACCTCC CGGGTTCAAG
TGATTCTCCT GCCTCAGCCT CCCTAGTAGC TGGGACCACA GGCACTCGCC ACCGCAACCA GCCAACTTTT GTATTTGTAG
TAGAGACAGG GCTTCACCAC GCTGGCCAGG CTGGTCTCAA ACTCCTGACC TCAGGTGATC TGCCTGCCTC GGCCTCCCAA
AGTGCTGAGA TTCCGGCGTG AGCCACTTG

<u>SEQ ID NO:1158:</u> (Length of Sequence = 190 Nucleotides)
CTTATTAGTT AATTCCACGG CAGATTTTCA TTTCTATCGA ATATATTATA TGTAGAAACT AGGGCCTTAA ATAATTAAGC
TGACTTTNCC TATTAGTTAT TCCTTAAGAT AAAATTATGC TGGTGAAAAT NACTGTNGAA TTTCTCAAGA AATTAAGCTC
TATAGAGGCA TAAGTAATCG AAAGACTTTT

<u>SEQ ID NO:1159:</u> (Length of Sequence = 340 Nucleotides)
GGGCACTGAC TTCCTGGGAG TGTAAGCNNC TCACCTGGAC CCCACAGCCA GTGAGCATTA GTGCTTATAT TCCATCCTCC
AAAGCTCTTT CTTCATACCA GACCACACAT GTGGCCCAAG GAGGGATATT TACTCTGCAC TTTTAGAGTT CTAGAAAACA
TTGTTTAGTG GTCTGGCATC ATCTATATTT ACTTGGCTTG ATTTGGGATA CAGTATAATC CTTGTCCTCG ATGAAGGCAT
TTTNATGAGT TAACCTTATG GGGTGATGGG ATTTATGGGA TTATTTCCAC CCTTAAAATG ATTTTGTGGG GAAAAAAAGT
GTACTAATCC CTAATTTAGG

SEQ ID NO:1160: (Length of Sequence = 215 Nucleotides)
GTAAACAAAT CAATTAACAT GATTATCCCA GACCTTTCTT TTCTTACTGG AAAAAAGAGG GCATTAAACT GGATGATGAC
AATAACACCA TAACTACAAG CTTTTATAAA AGTCCTTTAT ATACAGTGTT AATACAGTGA AAGNTCAACC TTATTGAAAG
AGGTCTGGCT TCTGCCCTCA GCTACTGGGA AACAATCACT AGGCCTCTGG CATGT

SEQ ID NO:1161: (Length of Sequence = 298 Nucleotides)
AATCTTTAAA ACTACTTTGA ATCTTATAGA AACATCAGAA TCTTTTGAAT TCAAAAGAAG CCAGGGACTC TAGCCAAAGT
GGAGTGGTTT TTTAACTCAA GGATTTAGGA CCTTGGCTGA ATACAAACAT TGAATGATTA CTCAGTAGGT GCCAAAGCTC
AGGACTTTAG ACAGAGTCAG AGTCCAGTTT GTNCTGAAAC ACAATTTGAT TTCAACTATT GTTTTAAGTG AGAGAGGAAA
GTGACATTAT TATGAGTGTA AATTTNCTGC TTTTAAAGTA GAAGTTACTG ACAATTGA

SEQ ID NO:1162: (Length of Sequence = 163 Nucleotides)
GAAATAAGAA ACAGCTTGTA TATAACTAAT GCTTTGAGGG AGAAATTCAA ATGGCTATGA AAAAATATTT ATAATTCAAT
GATAATAAAA ATCTTACACG TTAAAACTTG AGAATGTAGT TAAAGCAATA CTTGGNCATA ANCTTAGCAC ATATTAGTAA
AGA

SEQ ID NO:1163: (Length of Sequence = 393 Nucleotides)
GCCAACACCA GGAGCATTTT ATTCAGATGT TAAATGAACC AGTTCAAGAA GCTGGTGGTC AAGGAGGAGG AGGTGGAGGT
GGCAGTGGAG GAATTGCAGA AGCTGGAAGT GGTCATATGA NCTACATTCA AGTAACACCT CAGGAAAAAG AAGCTATAGA
AAGGTTAAAG GCATTAGGAT TTCCTGAAGG ACTTGTGATA CAAGCGTATT TTGCTTGTNA GAAGAATGAG AATTTGGCTG
CCAATTTNCT TCTACAGCAG AACTTTGATG AAGATTGAAA GGGACTTTTT TATATCTCAC ACTTCACACC AGTGCATTAC
ACTAACTTGT TCACTGGATT GTCTGGGATG ACTTGGGCTC ATATCCACAA TACTTGGTAT AAGGTAGTAG ATT

SEQ ID NO:1164: (Length of Seque ce = 260 Nucleotides)
TGCATTCTTG CCTCTTTGAC AAGTTCTGCT TCTTTACAAA GGACTTTGCA AGTNCTTCAC CCAGACCATC TCACCTGTAC
CGAAATAACC TCCCCTACTA GCGAATGAGC AACTTTGGAG CAGAAAGCAG AAACTGCATC ATATTTCTCT TACTATGCAA
ACTGGTAGCT CAAACCTCAT ATGACCTCAA AAAACTATAA TTGCTTCAAC CTAAAAAAGC TGATTGTAAA AAAAAAAAAA
NGCTGTGGTT GCACACACGT

SEQ ID NO:1165: (Length of Sequence = 330 Nucleotides)
CATTGGTATT TAAAAATGAA TATTAATATA ATGAAATGGN TTTGCCTTTT TGTAGGCATA ATAAGCCAAA TACTTTTTTA
CCCAAAATAA TTTTNAGAGA AAATGATGTA ATGAAAAATT GTACCATGAA TTAGGAGCAT AGTTTTTNCC ATTTAAACGT
CACCATTACT TAAAAGATGA TTGATTATTG CTATACCAAA TCAGATGAAC TCTGTTCATC ACTTCCTNC TCTGTCCCCA
AACAATTTGG TTCATTCAGA CTGAAATGTT TGTGTCTTCA ACTTATTAGA ATGGAAGATA ATGCAGATAT TTCTGTGGGA
AATAAAATAA

SEQ ID NO:1166: (Length of Sequence = 312 Nucleotides)
ATTGGAGATG CCTTTGTCAA ATTTNCCCAT TTTAAATGGC CAGGAAAAAC AATAATTATT TTCCTGATGC TGAGGTTTTA
TATCTTAGTA GAAGAACTTA AACTATTACT TGTATTCAAG TCTAACAGCA ATAGACGTAA TGANTGAAAG TAGTCATTGA
CCTGGGACAA GATCACTTTG AACATGACAC TATTATACAA AGTGTAATAT TTATTTTTAA ACAACCACTT TTCAAAAGCA

297

GTTGTGCATA CATTCCAAAG AATAAAAATGC TAGCTACTAG GTTTTGAGAA GCAGAATAAA ATATGATACT GA

SEQ ID NO:1167: (Length of Sequence = 305 Nucleotides)
AGGAAAAGGA TTGATCACAG GAGAGGTACC AAGGGAGTTC CCAGAATAAT AGAAAAGAGG NTCCTCAAGA AGACAGTCAC
GCAAGAGACC AAGAGAAGAG CTAATCCAAT TGATGCAGGA GGAAGTAGAG CTTCAGAAAG AATGTCTCAA AAAAGAAAAA
AAAAGAAAGG AGTGGGTTAA GTATCTGATG ANTTTNCCAA ATTGAGAGGA GTTACATAGC TCTATTGAAA ATCTTAGATA
AANNTGATTG ATAAATACAT AGANCATAAA GCAAACACTG AAATAAGGCA ATTATCAACT CCAGG

SEQ ID NO:1168: (Length of Sequence = 342 Nucleotides)
AAGGTTTTAG TGATGATTCA GTGAGAAACA TATTTGAAGC AACAAGCACA GTAACTGGAA GCTGTAGGTA CTCAATAAGT
GTCAGTTTCC TTCCTCTTCT AAAAGCTGTG CTTTCAAGTC AATTGTATGT CTAGAGTCGC ACTGTCTGGT ACAGTGGCCA
GTACTAGCCA CATATGGCTC TCAAGTACTT TAAAGAGGGC TAGTCTGAAT TGATATGTGT CATACATGTA AAATACTTTA
AAGAGGGCTC ATCTGAATTG ATATATGCCA TGCATGTAAA ATACAAATCA GATTTCTAAA ACTTTGTACC AAAAAATACC
ATAAAATAAC TTACTAATAA TT

SEQ ID NO:1169: (Length of Sequence = 397 Nucleotides)
GAGACGGAGC TCCNTCTGTC GCCAGGCTGG AGTGCAGTGG CACGATCTTG GTTCACTGCA AGCTTCACCT CCCAGGTTCA
CACCATTCTC CTGCCTCAGC CTCCCGAGTA GCTGGGACCA CAGGCGCCCA CCACCACGCC CAGCTAATTT TTTATATTTT
TAGTAGAGAC GGGGGTTTCA CCGTGTTAGC CAGGATGGTC TCGATTTCCT GACCTCGTGA TCCGCCCGCN TTGGTGTCCC
AAAGTGCTGG GATTACAGGC GTGAGCACCA ATGCCCAGCC TTTGGAGACA CTTTTGATTG CCACAACTCA GGGTAGGGAG
GGCTGGGAAA TATTACTGGT GTGTAGTGCA TCGAGGCCAG GGATGCTGCT AGACATCCTG CAATGCACAA GGACAGG

SEQ ID NO:1170: (Length of Sequence = 422 Nucleotides)
GTTTTAAAGC CTCTGGACAG AGCAGTATTT CGTTTAAAAC TTTGTTTTTC TTAAAAGCTT ACAGTGTTTG GCTAATTCTC
CTCCCCTTTT TACAAGACGG GGGCCGGAGG GTGGACACTG GTGGCAGGTT AAGGGATACT GTCACTTTAA GAAGCCTGCA
GATTGAAGTG TAAACATGGA GAAATTAGGG GCTGATTTTT TAAACTGTGT GAGATATTAA CCAGCCGCCC TGTTATAAAA
TCAGGAAATC CAAACAGCGA TTTACACCGA TTAACACCCC CTTTATATAT TTTTNACAAA AATACACTGA GAAAATAATC
AAACGTTTTC ATCTCTCTTG TCTTTTTTTG TTTTTTAAAA GTGTCAAAAG TCTACATNTA AATATAAAAN ATTAAAAGTT
AAACTCTAGC CCTTCAGTGA GG

SEQ ID NO:1171: (Length of Sequence = 384 Nucleotides)
TCTGAATGGG TTGGTGAAAG GTTACAGGAG CAGACAGCCT CCACACCCAG GCTGCTCTTG GCTATACAGG CTACCTCCAT
CCCTGANTGT TGTAATAGGA AAGTCTAAAC ACACAGAAGA GGAGCACAAA ACCAATAATT ATCACACATT CAAAATAAAA
CTAATCCATA AAGAAAAGTA CCAAACTCAA CAAAGACAGC AATGCCTGAA AACACTGGGC TGTATCAGCA AATAGAACAA
AGAAAAATAN GCATAATTAA AACAGTAGAA GGTGAAGGAT AATTTTTAAA ANTTAGATAT CATATTCTGA TTATTGAAAT
AAAAAACTTA GTAGAAAAGC TTAACTGAAG AGGATCAAAC CTGAGGAGGA CCCCGCCAGT TTTG

SEQ ID NO:1172: (Length of Sequence = 410 Nucleotides)
GAGAGAAAAA AAAAAAATCT TTTAAAAGCT GCCATCTGAG GTGATGGCTT CTCTGTACTT ACGCCATACC CCAGANTACA
ATAAATAAGC AATTAGAAAA CGTTCAAGTA TGAAGGGATT TCCTCCTCCC CGCCAAAAGC ACTGCTCTCT GAAGGAAGCT

298

GGTTTCTCTG TAGCTACACC AGCTGTTCAG AAAGCTCATT GGACCTGGTT TTGAAAATAA AACAAAGTTA AAACCCTGGG
AGGAGTTATT GTNCAGTGTG GAGTACTCAG GCTTTCTTAT AAAGAAAAAA AAAGGTTATC TGGTACCAAA GTGTGCACCT
ACAGACCCTC AGGTACTGCC CTGTGACTTC NCTGTATGAC ATCACAAGGC TGCCAAGTGC TGCTTTNCTA GACTAGGGAG
TTGGTGAGGT TTTGCTAG

SEQ ID NO:1173:   (Length of Sequence = 274 Nucleotides)
GAGATCTAAA TGAAATTTAT AAGAAAATTG TGGGTTCTGC CCAAGATGAC ATCTAAATTG AAGAAGGTAC ACAGTGAGTT
TAAAGGATCA ACGAGAGAAA CTTTTATTAT TCATTTGCAC AAGAAGACAC ATTCAGTATC TGGATTATCC AATATATGGA
ATACTTTGAG TTGAAATGAT TAAAGGGTAA TCTTTAATCA TTAATTAACA AATCATTAAT TAANCAAAAT AATATTTAGC
AAATTAAGCA AGTNCTAAAG GCTACATGCA AACT

SEQ ID NO:1174:   (Length of Sequence = 326 Nucleotides)
AGAAATTAAA ACACTTTAAT ATAAACATTT CCAGAATATA GACTGACCTT ATATCAGTAC TTTTNGAGAC CGTTTTAAAA
CTATATATCA TCTAAGTTTA TTATAGACTG TTTCATTTTC CACTTTCAGA ACTAGAAAAT GCAAAAATAC ACTGCAAATT
AGATTTAACA AAGAAAAAAT CAGTTTAAGN TATTTCATAC ATATTCCTTG GNGAAAGCTG AGACACATAA ACACAGNAAA
ACAACAATAA AATACCACCA ACACTAACAC AAAACCAAGG AAAGAACTGN TTTTGTAACG CTTGGTAATT CTGTCCTTTA
AAATAA

SEQ ID NO:1175:   (Length of Sequence = 426 Nucleotides)
GCAGTCAGGA TGGACACATT AGAAAGAAAC ATTTTAGTTT CAATGTTACC ATAAAACCAG AACGAAAAGC AGCATGCTGT
ATTATATTTN NCAATTTAGG TTCCATTTCT AACTCCACCT AAAATGAATA TGAACAAACT CATTTTTAAG TGTTTGTCAG
TCAAATACAA TAATAGTCTA AGTTTATTCA CATATGTACC AACCAAAGCC CAATAAAGCT AAAAGGAAGC CAAGTGTAAT
AAAAAGGCAG CTATAAGGTC TTGTGTTTGA NTTTTTACCC AGCAAGAAAT AAATGATACT TAGTAATCCA TCTTTCCCCC
CCACTGCCAT CCCTGCACAC ATCTAAAATA GGCTAACTTC ACCTATTCTA ACTTCTGAAA TTGTTTTGGG ATTCCTGTTT
TACTTTCTCA GAGTGGATGG TATAGC

SEQ ID NO:1176:   (Length of Sequence = 301 Nucleotides)
CTAATCCTCA ATCCTATCCC TTTNCCTCTT AGCCATCCTC TCTAATTTNT TTAACCTAAG CCTGTGTGTC CTCAGAAAAT
AGGTTATGCT GTTGGTGTGT GTGGTTGGTA ATCTATATAC ATGGNGTTAT GCTATTGATT TTGTTTGGTA ATCTCCCTTT
TTACTCAATA CTATATTTAT AAGANCCNTT TAAGTGGTTG TATGCCTCTA CTTTATTGCT TCTGACTGCT GCATGGNATT
CCATACTCAT GTCCACCACA CTTACTCATT CTCCCTCTTG ATGGACGCTG AAGTTGCTTG G

SEQ ID NO:1177:   (Length of Sequence = 331 Nucleotides)
GCAATTCTCC TGCCTCANCT TCCTGAGTAG CTGGGATTAC AGGTGCCTGC ACCACGCCCG CCTAATTTTT GTATTTTTAG
TAAAGACAGG GTTTCACCAT GTTGGTCAGG CTGGTCTCGA ACTGCTGACC TCATGATCCG CCCGCCTCAG CCTCCCAAAG
TGTTGGGATT ACAGGCATGA GCCACCAAGC CCGGCAAATC CATGCTTTTA AACATTACTC TGTATGGTGT GATAATGAAC
AGTCACTGNT ATCTGACTGT TCATCTGTGT GGTCCATCTG TATTGAATAA AGGAGGAAGG AGTTGAAGAA TAAAGGGGAA
AATCTTGCAG A

SEQ ID NO:1178:   (Length of Sequence = 325 Nucleotides)
GAAATTNTTG GAGAGAATAG TCATACCTAC TTTAAAAGAG AATAAATTGC CTTTCCTAAA TNCCTCTGCT TCGCTCCTTT
CCTGGCGTTG CTCTGGAACC TTGTGAGTTA TATGTATGAT TNCTGTACTC TGATATCCAT CAAAGTGCAT AACATAGTAC

TCATGATGCA GTAAGTACAA ATCTTTTTTG AAAGAGATAT TGCTTGTNAA CATTTTGGAT TTATAACATT GGCTTATAAT
ATATACAACA TCTTTATAAA TGCCACCTCA GTTGGGTTTT AAGCCTTACA AGAGTGCTAT GAGTAAATAT CACCCACTTT
AAAAA

SEQ ID NO:1179: (Length of Sequence = 297 Nucleotides)
CCTTGGGAAT TGTTTCTTGG AAATTAAAGC ATGTGTCTCA CACAAACAGT AGAAGGCATT GAGCATTCAT TAGTCTTTCC
TCAAGAAGAT ATCAAAATGA GACTAGAAAC TCTCTGGTGA ACACAGAATG CTCTGAGGGG GNCCAAGGTA CATTATGACC
TTAAAACGAA CTCCTTCTCC ACTGGCCCTA TTACTCACTG TGGAAAGCAC CATGCCAGGC ACAGCAAGAG ACTTAAGAAC
ACCTACAAAG GAAGATCTCT NCCATCCACT TGTGTAATTA TCTTTAAAAA GTAATCC

SEQ ID NO:1180: (Length of Sequence = 278 Nucleotides)
GCTGCTTGGG ACTTGAAATC TGTGGCCGAA GACCNGTCAC TACATAACTT CAAAAATAAT CAACCACCCT CCCTTCCCAA
ACCACCCAAA TTCACTCATC CAGCGTTTAC TTTTTTGAAT CCACTCAGAA CTTTTTNCTG CGACCCCCCT CCCTAAATGG
AGTTGGGTGG GGGGGAAATG AATACTGAGT TGGCCTTTAT TTTTTAAAAG ACTTTTTGAT CCAATGAGGC CCCCTAAATA
ATTGAGTTTT GGGTCCTGGT TGGTTTGTTT TATTTTGT

SEQ ID NO:1181: (Length of Sequence = 331 Nucleotides)
AATTGAGTTA CAGGAGAATA CTGTGAACAA TTGTACAGCT AAAAGTAATA ATCTAAATTA AATGTACACA TTCCTAGAAA
CACACAAATC ACAAAANCTG ACTCAAGGAG AAATAGAATA TCTCAACAGA CCTATAACAA CTAAAGATAT GGAATCAGTA
ACCAAAAGCC TTCCAACAAA GAAAAGCCCN GGANTAGATG ATCTTCACTG ATGGNTTCTA CCAAACATTT AAGAAAGATT
TAACACTAAT TCTACTCAAA CTCTTCCACA AAAAATATGA GANGAGTAGA GAAAACTTTC TAAAATATCT TATGAGGGCA
GCATTACCGT G

SEQ ID NO:1182: (Length of Sequence = 345 Nucleotides)
GTGTGTNTAG AGGGATGGAC AGGATGCTGT TTATTTNCCC TTTCTTGGAA ATGGACCTTC TGTCCCTTCC ATTTGGACAC
CACAGTGGAA GCTGGTGGCC TGGAAGGAAG GATTAGGTCA TGGACATTTG AACAGGTGCC TTGGGCATGA TGTATAGATG
CAGTCATATA TACCTTGCTG GGNTGGGGTG CCACCTCCAG TGGNCAGCTC CAGATCCAAG GAGCAGCCCC CTGGGGATGG
ACCCCATTCA TTCATCATGA CTCCCAACAG TTTTTNATTG TGGAAGAAGA AACTTTNGCA TTATAGAGAC ATCATCACAA
AACAGTANAA ACAAAATCAA CCCTG

SEQ ID NO:1183: (Length of Sequence = 272 Nucleotides)
ATGGAAGATT CAGAGATCAA AGGTGAAGTC CTCTATCTCG GCTACTACCA ATCAGCCTTC GACTGGNATG ATGAAACANC
CAAGGCCTCC AAGCAGCATC GTCTTAAACG CTACCACAGC CAGACCTATG GCAATGGGTC CAAGTGCGAC CTTAATGGGA
GGCCCCGGGA GGCCGAGGTT CGGTTCCTCT GTNACGAGGG TGCAGGTATC TNTGGGGACT ACATCGÁTCG CTTGGACGAG
CCCTTNTCCT GCTCTTATGT GCTGACCATT CG

SEQ ID NO:1184: (Length of Sequence = 335 Nucleotides)
ACATTTTGCA AACTCAGTTG ACTCACCTCA NATTGCCAT TCCAATTACA GGGCCTCGAA AGAGTCAGCA CTCAGCCTTG
CTCAAGGNTC AGATTTAGGG GTTGCCCCCC GNCCCCGCAA CCTCCCACCT ATTGTTTCAA ATGTCCTCAA GACAATCACC
ACTGTATTAA GAGAAAGAGG CATGGGGGCA GAGCAACAAG GAAATAAATG AGGCTTCAGA ACNGTGTCTA GGTGGGGTTA
CTTTGAACCT TAAACCACCC TTGGGNCCCA AATCTGCATG AGCAGGGGGT GGGCTATCAT GCTACAGANC CCCAAGGAGG
ACATTTTTCC CAACA

300

SEQ ID NO:1185: (Length of Sequence = 383 Nucleotides)
GAGAGGTGAG CAGGCGTGCG GGGGGGGGAC TTCTGCAGAG AAAATATTTT TAAAGTCATA AAACCATGAA AATAACAACT
ACTGTACGTT TTATTTTATA GAAATCAAGT AGTATCTAAT AGACAAGGGA AGACATTGAT CCATAAACTT TTTAAAGAAA
ATTTGGTAAT CTCTTAAAGT ATTTGTATGG CTTTGAATGG GTGTNCTTTT CTAACTTTGT TTTAATTTTT ATGATACACT
TATAATTGTT TCAAATAGGC ATTTGTNCAT TTTAAAACTA CTAGAAGTTA CACTGAAGAA AAGCATTCAA AAGAAGACTT
TTGGACAAAA AAAATTGTTG AATGAGTGAA ATGCCTGAGG TAGCTCAATT TACCAAACAG GAA

SEQ ID NO:1186: (Length of Sequence = 373 Nucleotides)
GGGGCTCAAG GTGTGCATGT NTGAGGGAAG AGAGAGAGAG AGAAGGCCGC CTCANAGGTG ACTTTCAGCC TGCNAGCCTT
CTTCCCGGGG CGCCATAAAC GCCCCCAATT TCCCAGCTGC TAAAGGAAGA GGAAGGTACC TGTNCGTGCA CGCAGACGGG
AAGGGCTGGG GAAGCGGGAG GACTGAGAAA AGCCAGATCT TAGCAAAGCA ATGTCTCAAG ATGGTGCTTC TCAGTTCCAA
GAAGTCATTC GGCAAGAGCT AGAATTATCT NTGAAGAAGG AACTAGAAAA AATACTCACC ACAGCATCAT CACATGAATT
TTGAGCACAN CAAAAAGGGC CTGGGTGGAT TTCGGAAGCT ATTTCATAGA TTT

SEQ ID NO:1187: (Length of Sequence = 365 Nucleotides)
TCCACGCAAT TCTGAATAAA GTTTATTAAA TAATATGTAC AGCAAATGTA GTAATTCAAC ACATCTATTT ATCAAATCAA
TCCACTGCAA TGAAGAAAAA TAAATGANCA GAAAAATCTA TGTCTGCATA GGNCATGCTC TCAGTGTGTA ATTTAAATGG
CAATACTTTA AATTAATTGG TTATATATAA TGTCAGTTAT TTTCCTTTCA GAATATAACC TTTTTTGTAG TAACCTATTC
TAGCAATAGG GCTTAATACG NCTGCAGATA AATAGGNCTG CAAAAACCAA AAACCCAAAA TAATGAAATT NAAAAGGGGA
AAAAAACTGT AACTGNGNTC AGAGTTACCT TTCCTCCCCC ATAGG

SEQ ID NO:1188: (Length of Sequence = 350 Nucleotides)
ACTATGGCT TACATTTATT TTAAATTTCA CTAAATACAA ATCTTGATTG TCATGCCAGT TTTAGATCTT ATTAATTTNC
AGAATGGATA AATTCAAATA ATCATAAATT ACGGTAACTT TTTATTATAC CAAGGTGTTC TAATGCCATC ATATGANGAC
AGATGCTTCA AACAACCTGC ATTAAATTAT ATTTNNAATA AAATTAAAAT CTATTTTTAA CCTATTTGTA GTCACAAACC
GAAAACGTGT CGNCTTTACC TTAGAGCTAA AGGCTTACTT TATGCATACG GGATATTTAA TAGTCTACAA ATCAAAGGTT
TAAACAGNCC CTTAAAAATT CCATATATTC

SEQ ID NO:1189: (Length of Sequence = 393 Nucleotides)
GCAAACTTNC TCACTTCCTC AAAGAAGAGT AGTGCACTAA AAAGAAGGTT GCACCCGGAG AGCATGTAAA GTGTCTCAAG
GGGGACATCT GAAGTNCCCC GTTCCCAGGG AGCCCACTGG CTCCTCACAA GTAATCTAAT GAAAGCTATG CATTCTCTCT
GGGCTCCTCA TATGAAAAAN CCCAATGTAT GANGCAAAGC CTAGAAAGGA TTCAATACTG GAGAAATGCA CACAGCTACC
GATAAAGACA GCTCAAAAGT CCTAAGGCTG CTGACATGAA CCAGATAATT GGTGGCTACA GTTGTGCCTG CTAAGATTTG
GGTGCATGGG GCTTCGCTTT GGTTAGCTCC CATGGTCTTC TTTTTCCAAA AAAAAAAAAG AAGNCTTCAG GTT

SEQ ID NO:1190: (Length of Sequence = 365 Nucleotides)
AGTGTAAACA TTCACATATT TAATAGTACC TTTAAAATAA GCATTACTAC ATTTAAAATG GTTCCAAAAT GAATCTATAA
ATGGTAATAT AAATTAAAAA ATACGAACTT AAAGTGAATA AATTTTTAAC CTTAGCTATG GTATAAATAA TGGTAAATGT
ATAGTGTACC TNTGAGTCAT TAAAATGTCT TAAAAGATAA CAGCTTGTTA CCAGAACATT AGANACCATA GCCATGATTC

TCAAGCGNTA ACAATCTACA TTTGNTATTT NCTTGGCCAC TGCATTCTTC AAATGANTAA TAAATTTCCA GAATTCCCAT
TCCCATGGTG TTTTTCCCAA TAGANCTTTT TCACACTCGA TGTTG

SEQ ID NO:1191: (Length of Sequence = 303 Nucleotides)
CCCGGAGAGC TGCCTTCCTC TTCTACCACG TGAGGACACT GCAGGAAGAC AGCTGTCTAA GAACTAGGAA GTGGGCCCTC
ACCAGACATT GAATCTGCGC TCCTTGAACT TGGACTTCCC AGCATCCAGA ACTGTGAGAA ATAAATTCAT GTTATTTATA
AACCAACCTG TCTATGGTAT TTNTTGTAGC AGCCTGCAGC TCTCTATCAC TCTTGTTTAT AAGAGGCTGA AGTTTACTTT
ACCTCAGGCA GAGCTAAGCA AAAAGATTA CATCCCGATT ACAAGATGAA AGTAAACAGA ATT

SEQ ID NO:1192: (Length of Sequence = 315 Nucleotides)
ACTCCAGCCT GGGGAACAAA CAAGCAAGAC TCCATCTCTA AATAAAAAAG AGTGTCCCCC TAAGATGCTC TGCGAAATAT
TGTAGACTGG TGTCTCTCTT GGATGATGTT TGCCGTCAGC ATTCACCAAA TAAACTTGCT CTCTGGGAAA AAAAAAAAAA
TAATAAATAA AATAAACAGT AAGAAACACC CATAAANCAA ATTTCTATGC TCCTGCAGCC TCTTTTTGCC TGAGCAAGTG
GGACCTTGGT ATACACATCA CCTGTNCTTN CCCTTTTCTT TGAAATGTGG TGTTTGCTGT TAAATTGGGA TTGAA

SEQ ID NO:1193: (Length of Sequence = 313 Nucleotides)
CGAATTAGTG AACTGTGCTT CAGGTTCAGG AACCTGGTCT TAGCTCCTTG CCTGCTGAGA TTTTGAGTTA CAAGTAGAAT
TCTCCAAAAG CAAAACACGT AAAAGTCATT TTNCCACTCT TTTGGTCAAG CACATGTAAG CTTTCAGGAC CAGGTGGTAT
GCCGTTNCTG AAAGTGAGAC ACATGCCCCA GGGAAAGGGT AATTTTAAAA TTCTTCCCAT AGGTCCTCAT CCTGTTCCTC
TGCTATGTCC AGCATCCTTN AGTCCCAGCT GCAGGGCCTA TATTTAAATA CCCTCATGCT TTATCGCTTT TGT

SEQ ID NO:1194: (Length of Sequence = 341 Nucleotides)
GATTTAAAAG CAAGTNATTT TNAAATCCAC GAAAGATGCC TACCTTGGNT CCTNCTCTGG TCCTTATTAG CCACACCTCT
CTTGACAGGC AGAGGAGTTA GGAGTGAGGG GATATTCCCA CCAAGACCCT ACAAATTGCA CTCTTAGGCC ATGCCCTGGG
TACCCAAACT CTAGAATTCC CTCCTCAAAG GGACCTTAAC CCAACTTCAG AGCCTATATA GGCCAATTCC TTGGTCCATT
TTCCAAGGGG TGGNCAAAGG ACAACCATTT TNGGGAGGGN GANGGGAGTA GGATGAAGCT TTGGNCACGT GGGTCTTGGG
CAAATCCCAC ATATCCCGGA A

SEQ ID NO:1195: (Length of Sequence = 239 Nucleotides)
TTATTGATTC TTTTTTTGAA ATGGAGTCTC GCTCTGTNNC CCAGGCTGGA TTGCAATTNC NCGATCTCAA CCCACTGCAA
CCTCCGCCTC CGGGGTTCGA GCGATTCTCC TGCCTCANCC TCCTGAGTAG CTGGGACTAC AGGTGCGCGC CACCATGCCC
AACTAATTTT GGTATTTTTA GAGACAGGGT TTCTCCATGT TGGTCAGGCT GTTCTCAAGC TCCCAACCTC AGGTGATCA

SEQ ID NO:1196: (Length of Sequence = 291 Nucleotides)
CCATGCTTGG CTCAGGGCCT GGGGCGGGGT CCTGGGTAGA GTCCTAGCCC CAGAGCCCCA GCCCCTCATG TCCTGCCGCC
CCTCACTGAC CAGACGATGA TCGGNAACCT CTTGAGAAAA CATGGCAAAG GATTAGAAAA GGGCAGGGTG AAATTNCCAA
GCCACTCAGA CGGAACCCAG ATGATCTTCA ATGCAGCCAA GGAGCTGGGT CAGCTGTCCA AACTCAAGGT TCACATGGTA
CGAGAAGAAG CCAAGAGCTT NACCCCAAAG CAGTGCGCGG TTGTTTGAGT T

SEQ ID NO:1197: (Length of Sequence = 303 Nucleotides)
CTTCATATTT TTATAGCTGG GGTCAAAATA TGCAATTTAA AAATAAATAT ATCCATTTNC CTATTCTTAC ATTTATGAAT
ATAAAANTAA AATCTAAGAA ACATAATGCT GCCAACTAAT AGTAGTGGAG GAAAGGAAGC TGAGAGAAAG ATAAATATAT

302

TANTTTAATC ATTACTCAGA AAAGGCAGTA AAAGATACTA TCTATAGCAG GCATCAATAA ATATGANCCA TGAGCCAAAT
CAGGCTTACC ACCTGATTTT NTAGGATAAA GTTCATTGNA AACACAGTTA CAGTGTCTTT CCA

SEQ ID NO:1198:   (Length of Sequence = 318 Nucleotides)
CTCAATTTCT TCTCATCTTT TTNATGCTAT TATTGTCATA TAAGTTACAT TCCTATACAT TGTGTGTCCA ACACAAATTT
AAAATTATGC CATTGTCTCT TAAGTCATAG AACAAAGAG ATACAAACAA AACATACATT TATCCTGTCT TTTATATTTG
CCTATGCAGT TACCTTTACC AGTGTTCCTT ATTTCTNCAT GTGGATCTGA GTTACTGTCT TTNAACTTCA ATCTAAAGNN
CTTTCAGTCT GAAAGACTGT AATTTNAATT TCTNGTAGGG GTAGGTTAAC TAATGATTAA TTCTCAGTAT TCTGAGGA

SEQ ID NO:1199:   (Length of Sequence = 326 Nucleotides)
TCTAGTTATT CTGAGAACTA CAACCAAGAA AAGAGGGAAG CACCGGGTTG GCCAAGGCCA TCCGGAGACT TGTCCTGCTG
GGTCATTTAA AAAGCTTTTC TAGGATAACG TTGGCTTTCC AAGTGGTTTT CCAAGCTGAT GTCTTTCCCA CTGAGGAGAA
GCTGTAGGCC TGTGGACTGC CAGGTAGGAG GAGGTTGAGG TTTAGAGGAA AGAGGAGAGC AGGAATGGGT TGTTTNCAGT
GGGGCTGTTC CCATGGACTC ACCAAGAAGA AATCGAGGTG CTGATGGGGC TGCACAAGTG CTTATCAGAA ACAGCTGTAA
CAAGTT

SEQ ID NO:1200:   (Length of Sequence = 341 Nucleotides)
GGGTGACAGA GTGAGACTCA GTCTCGCTGA AAAAAACAAC AACATTGCTT TACAGTGTGA TTCCAGTTAC AGAGAATATT
CACATAGGTG CATAAATAAA TGAAAAAATT ATTGGTTAAT GTCTCTGTAT GTTGGGATTC TCAGTGATTT TNTTTTNCTA
CTTTTNATTT TTNATAATTC CTCCAGTGTG TTGGTGTTAG CTTTATAGAT TATATCAAGT AACCTTTTGC TGCACCAAAA
AACCCCCCAA ATCTAGTGGA TTAAAACAAA ACCATCTTAC AATTTTNNTC AGAACTGTCT AAGGCTGGAT ATTTTACTGG
GCTCTCTCCT GAATGTGGGG G

SEQ ID NO:1201:   (Length of Sequence = 312 Nucleotides)
GTCTTTNTTA CCCTGCTAGC AATAGCTCTC AGTTTCAGAG GCACAGTCTT TGGAGACCAT TCAGCACTGA GAAAGCAATA
TTTAGAACCT ATTGCAAAAC TGGGCCTGAG TTAGGCATGG TGATGAATGC ATCAGCAAGG AATAGAAAGT NCTTATCGTG
AAACCCTTCA ACCTCAACTA TGCCTTCATA GACACACACG TTCATGCACA TGTAGGCACA TGTACCATCT CACATCTTTC
ACTTTCCCGA GATGCCATAT ACAATTACCT ACATTAATAN CTGTAGCACT ATACCTTTTT GAGCCCGAGA GA

SEQ ID NO:1202:   (Length of Sequence = 344 Nucleotides)
GGAAAATAGC CAGACTGGGT ATTATGCATG TAACAAATGA GGACATTGTG CATAAGAAAG GAAACATTAG TTTTCTGTCA
TCCTGGGCCA AGTACCTCAT TACAGTAAAT GTGTGTCTTT GGAAACTCTT TGCTTGTNCT GATGGCGGTA AGCATGGGGT
CCCAGGCAGG TTCAAAGGCT GAACTGTAAG AAATGGGCAA GACAATACAT TTTGTTTTGG AAGGAATTTC TCATGGATA
AGTTTCCCAA AGCTTGAATT ACAGGCTATG AAATAAAGCA AATAGATGGA GGAGAAAACA AGTATTGTTT TCAAAAAGGT
ACCAAGTCAA TTCTATTTAA AGGA

SEQ ID NO:1203:   (Length of Sequence = 370 Nucleotides)
GTTCTTTATC TTCCTCCTCT TATGTGCACT ATGTAATGTC CTCATCATTT TAAAAGTGAG TTGCTATTGG GCGGGCGCGG
TGGCTCACGC CTGTAATCCC AGAACTTTGG GAGGCCAAGG TNTNTGCCTC ACTTGAGGTC AGGAGTTCAA GACCAGCCTG
GTCAACATGG TGAAACCCAG TCTCTACAAA AAACACACAC AAAAAATTAG CTAGGCATGG TGGCACACAC CTGTAATCCC
AGCTACTCGG GAGGCTGAGG CACGAGAATT GCTTGAACCC AGGGAGGCGG AGGGTTNCAG TGAGCCCAAG ATCGTGCCAC
TGCACTCCAA GCTTTGGGGT GACCAGAANC GAGACTTTCT CAAAACAAAA

SEQ ID NO:1204: (Length of Sequence = 346 Nucleotides)
CTCTTTAGAA AGCCTGCCTT GGCTGGGCCT GGTGGCTCAC CTCTAATCCC AGCACTTTGG GAGGCCAAGG TGGGAGGATT
GCTTGAGCCC AGGAATTTNA GACTAGCTGG GGCAGTGTAG TGAGACTTTG TCTCTACCAG AAAAACCGGG CGTGGTGGCG
CATGCCTGTA GTCCCAGCTA CTTGGGAAGC TGAGGCAGGA GGGTTTGCTT GAGCCCGGGA CGTGGAGGTG GCAGTAAGCT
GTAATTGTGC CACTGTACTC CAGNCTGGGT GATAGAGTGA GACCCTGTAT CAAAACAAAA CAAAAAACAA AAACCTGCCT
TCTNGGGATT GGGCTTCTGG GTTTTT

SEQ ID NO:1205: (Length of Sequence = 292 Nucleotides)
TACAACGAGA CACTTGAGCA CACGCGTACA CCCAGACATC TTCGGGCTGC TATTGGATTG ACTTTGAAGG TTCTGTGTGG
GTCGCCGTGG CTGCATGTTT GANTCAGGTG GAGAAGCACT TCAACGCTGG ACGAAGTAAA GATTATTGTT GTTATTTTTT
TTTTTCTCTC TCTCTCTCTC TTAAGAAAGG AAAAATATCCC AAGGACTAAT CTGATCGGGT CTTCCTTCAT CAGGAACGAA
TGCAGGAATT TGGGAACTGA GCTGTGCAAG TCCTGAAGAA GGAGATTTGT TT

SEQ ID NO:1206: (Length of Sequence = 336 Nucleotides)
TTGCCAACAC AGTGTGTCAT GTTTATTGGG CTATTCACAG GTAAGCTTAA AATACAATGA AAAGAAAAGA CCAGACGTCA
TCAGGAATGT CGAGAAACAA AATATTTAGC ATTTCTTAGT TTCAAATGTT ACCATTTCAT TGCAGCTGAG GAATATAGGC
CATTCGTTGA CATAACTGCA ATGGGTGAGA CTTATTTTTA GCCACAGGAA GCAAATACAT TTAACCAATG ACTTTTAGGA
CAGGAAGCAA AAAAGAAAAC AATATTTTCA TGTAGCAAGG ACAAGANAAT CATTTATACA AATTAAAGTG GATATTAAAA
TACCATTATA AAGAGG

SEQ ID NO:1207: (Length of Sequence = 319 Nucleotides)
TGCCTCANCC TCCAGAGTAA CTGGGATTAC AGGCGCCCGC CGCCACGCCT GGCTAATTTT TGTATTTTTA GTAGAGATGG
GATTTTNCCA TGTTGGCCAG GCTGGTCTCC AACTCTTGAT CTCAGGTGAT CCACCTGCCA CAGCCTCCCA AAGTGCTGGG
ATTACAGGCA TGAGCCACTG CGCCTGCCTC CATTTCCTTT TTATAATTCA TCCCTGAACT CCCTTAAGGT AGAGAAGCTG
TTTGATCGTC CCAGCCCCTG GGAGGCTGAA AGGTAACTTN ACCAGCTCCA TGCCTGAGTT TAGCACCTGC TGTGCCAGG

SEQ ID NO:1208: (Length of Sequence = 357 Nucleotides)
GAGATGTTTA AAAATGAAGT GGAAGTTTTT TGTTTTTGTT TTGTTTTTGC AGAAAAAAGA TTTTTAATGG CTTGAATGTN
CTGCCATAGT TGCGTCAGAT TGTCAGAAAA TTATGTTGTA CATCTGAGAG AGAAAAGAAG AGCCTTTTGA GGAGCTGCGC
TAAAATTATT TTTTGTTTAG TCTCTTAACT CTTTGGCTTG AATGAGTCAT TGACTTTCCT TGCCAAGATA GGGTTAGCAT
TTGTTTTGTG TTTTAAAAGC AGGCCAAGGG ATTGCCACGA GGGGAGACAA CCTGAGCAAC TGAAGGAAGG AATTTCTAGA
AATTGTGTTT ACCAGTTGTT TTAGTCTGAA TGTGATT

SEQ ID NO:1209: (Length of Sequence = 362 Nucleotides)
CCCATCTGCT CCACCCAAAG AAATCAGACA AAGTAAAATT TATTGAGACA GACAGAAATG CACCTACTCA GGACTACAGT
TAAGCATTTA CTATTAACCA AAGAGTTGTG TTCACATTCC AGATAAGTCT ACGTGGAAAA GCATTCAGAA TTTACTAGGT
TTTTNCTACA TCACTATTTC ATCTACAATA GGGACAACAA ACTGACACTC AGGATTTGAT GGGCTCTCAT TACAATGCTA
TACATTTAAC AGGGNCAAAC ATCAGTGACT TTGAGGAAAA AGTTATAAAA NGACCAAAAC CACCCACTGT AGGATGGGCT
CTTGGATGTT ACTGTACAGC GTGGGTCAAG GTAACAAGGA GG

SEQ ID NO:1210: (Length of Sequence = 349 Nucleotides)

304

GAGAAGATAG TAGAGAAAGT CAGCGTTACA CAAAGGAGAA CCAGGAGAGC TGCCTCTTTT GCCGCAGCTA CCACTTCCCC
TACTCCCAGA ACTACAAGAG GTCGTAGGAA GAGTGTAGAG CCACCTAAGC GTAAGAAGCG GGCCACAAAG GAGCCCAAAG
CACCAGTCCA GAAAGCTAAG TGTGAAGAGA AAGAGACTCT GACCTGTGAG AAGTGCCCCA GGGTATTTAA CACTCGCTGG
TACCTGGAGA AGCACATGAA CGTTACTCAT AGGCGCATGC AGATTTGTGA TAAATGTGGC AAGAAGTTTT TCCTGGGAAG
TGAGCTGTCC CTTCACCAGC AAACAGACT

SEQ ID NO:1211: (Length of Sequence = 344 Nucleotides)
TTTTTTTTTT TTTTTTCAGG GAAGAGCTTT ATTGCTTCCA TGGGGGTGGC CTGGGACGGC TGCCACAGCT TGGGTAAGCT
CCTTGGGCCT CANTTCCCTT TGGTCCAGGC TAAAGGCAGA ACCCAACCAC CTGGCAGTNT TGTTGCTGAA ACCTAGAACA
TGTGGCAAGT TGGTGAGTCC GGGCCTGCGG TAGTCCTATG GNTCAGCTGC AGCTGTGGAG GGGAGCTCTT CCCAGCAGGC
GGANTGGGCG TCACCCTCCT GAGCTTTAAA GTTCTTTCTG CTATAGCCCT GGGGCGGTCT TGTTGGCTCC GAAGGAATGG
GCTCCAGGGT TTCCCCATGG GACA

SEQ ID NO:1212: (Length of Sequence = 364 Nucleotides)
AAAGAAAACC TGGTATTTTC ACCATCCTCT CTGAAAATAA ATACTTTGAC TTGCACTGAT TACTACTTCA TCAGCATTCA
ACTCCGCTCC GTGGCACTCT GTGTGAATAA TTTTAAAGGC AGATTAAGCA TTCTAAAAAT AAATTCTATT GGTAAATTAG
GATATCAGAT GCTTCCATTA TAAAAGCCTA TCCTATTCTG TACTCTCAGC TGGCAGTCAT ATCCAGATCT CAAGCTACTC
TGGCTCTTAT TGAACAAGAA CCTATTCCAG GGNGTGAGGT TTTGAAGAGG GGATCTCTCA TGGTTAACTA GAGNCAGGAA
GAGGCAGAAT TGCCCACATA CTCTNGCAGG AGTTAAATAA CAAT

SEQ ID NO:1213: (Length of Sequence = 302 Nucleotides)
CTAATTTTTG TATTTTTAGT AGAGACGGAG TTCTACCATG TTGGCCAGGC TAGTTTCAAA CTCCTGACCT CGGATGATCC
ACCCGCCTCG GCCTCCCAAA GTGTTGGGAT TATAGGCATG AGCCACTGTG CCCGGTTACT TTTTCCTTTT TTAAAACACT
GAAATTGCTG TATCTACCAC ATTAACATTT TATTTAAAAA AATTTGTTAA ATAGCATATG TATGTAAATT TAATATTAAT
ATACCTCTTT TTTTGTCCTT CTTTAGGTGG TTGGAGCCTA GGGATACTTA CTTACTGATT TT

SEQ ID NO:1214: (Length of Sequence = 317 Nucleotides)
CTAATTTTNC AGACAGGTTT ACATGTAAAA GGCTAGGTAT TTAGCCACCT CAGCATTGAT TAGTTTTGGA TGTCTAAGCT
CTGTTACACA TGGCTTCCCA TGGCTTCACT CTACAAAACA TATTTNCAAC GTGAAGGNTA CATCTACAAG AAATCTACAT
TTCAAGGGTT TTACAAATCA ATCTTGTATC TTTCCCCTGA ATTGACTCTC ACAGACCCCG TCCCCTTGTN ATTNCCTTTG
CCCAGCTTAA CGGTCCAAAG TCTACTTAAA TGCAGCTCAA AAATGTTAAG ATTGGGCAAC AGATTTACAG TTCCTGT

SEQ ID NO:1215: (Length of Sequence = 276 Nucleotides)
ATAAGGTATT AAACAACTAT TCTTGTACTT GANTTAAAAA AAAATCAAGC TGGGTGCAAT TGCTCATGGC TGTAATCCCA
ACACTTTGCT AGGGTTAAGT GAGAGGTTCA GCCCAGAAGT TCAGTACCAG CCTGGGCAAT ATAGTGAGAC CCCTTCTCTA
CAAAAAAAAT GAAGAAATTA GCTGGGTATG GTTGCATGTN CTGTGGNCCC AGCTCCTCGG GAGGCTGAGG CTGGAGGNTC
ACTTGGGCCC AGAAGGTCAA GGCTACAGTG AACCTT

SEQ ID NO:1216: (Length of Sequence = 354 Nucleotides)
GCATAGGCAG CCCCTGCTCT TGCATTTACC TCCCACGTGA ACTAGCTGCT CAGTCATTGC TCTGGAATAT GCAGTTGTGA
TCTAGAAATT AAAGATGGGA TTAGGTAACC AGTGAGGTCC CTTCTACTGC CAGTGTATGA CTCTCTTCTT TGTAAATGTC
ATATGTAGGG TTCTGTACAC AGGACATTTT CTTCATTGTA GTTCCTCAGA TGCATTGAGC TCTCCTGAAT GACTTAGCGG

GGAAGCTCAG TTGCAGCTGA CCGTATTAAG GGTCCTCTCC CATTGTGCTG TGCCCGCTCG TTAGCGTAGG ATTCNTGCCC
CACGGCCCTT CCTGTTTTCT AAGGGCTTGG CTTT

SEQ ID NO:1217: (Length of Sequence = 272 Nucleotides)
CTTCCCAGCT TTTGCTTGTT GTAAACAGCT GGCAGTGGTT ACATCTATAT TTGTTAAGAG GCAGAGCACT GTATTTTGTG
TAAGATAAGG TGCTAGTCTT GGCCAGGCTG CCAAGCTGGG GCTNTTTAAA ATAAAAGTTT TAAAGAAAAA TTATAGCATA
ATAAATTACA CAATTTTATT GGAAAACTGA AGGTGTTCAA CCAATGCTAG TTTTTAAATA TATTTAGAAA TACTATTTCA
GGAAATTTTA ACTACACTCA TTAGTCTTAT GG

SEQ ID NO:1218: (Length of Sequence = 281 Nucleotides)
GTTGCCCAGG CTGCAGTGCA CTTGTGCAAA CGCGGCTCAC TGCAGCCCCA ATCTCCCACT CTTAAGCAAT CCTCCCACCT
CAGCCTCCTG AATAGCTGGG ATTACAGGTG TGCACTGCCA CACCCAGCTA ATTNCTTTAA TTTGTTTTAT TTTTAGTAGA
GATGGAGTTT CGCTATGTTG TAAAGGCTGG TCTGGAACTG CTGGCCTCAA GCGATCCTCC CGCCTTGGCC TCTCAAACTG
CTGGGGTTAC AGACGTGAGC CACCATGCCT GGGCCTGCTC A

SEQ ID NO:1219: (Length of Sequence = 231 Nucleotides)
GTCTTCTCTC CCTCCTTCCC TTTATTGGCA CTGCCCGGAA CCAGGCAGCC AGCAGGGGAT GGGATCAGGA TGCAGTTGTC
ATGGAAACGG TTGGGGATCC ACAGGAACGA CATTCATACA GGGACATTTN TGAAAGCAAA GCAAGAATGA NTGCTTTCCC
GATCTCAGAC TGGCTGGATT CAGATCATTG TTTTGGCTGG TTCTCATTTT AAGGGGTAAG CAGTTTGCTA T

SEQ ID NO:1220: (Length of Sequence = 409 Nucleotides)
AGTCACTCAG AAACTTACTT TGCTTACAGC CTCATTATTG TTTTTTGTAT TTGTTAAGAT ATTCCGTGTG ATGACATATT
TTGCCTTAAA TTTNCTAATT TTCCTGGCCA TTGCTTTCCT GTGATTTGAA AATGTTACGG TAAGTGCTTA GTTTGGAAAC
TATACTGTCA ACATATATTG CATTACTTCA GCAGAGCTGT AGTTCCATAA CATAATAAAA TGATGCTTTT TTTAATAAGA
AGATCATACA CATTTCATTA TGCCCTAAAA GATGAACATT CAAAGTTCAC TTTTCTCTTG TTTTGATATG ACGGATATAT
ATCAGTAAAA TAAAAAATGC TGCAGNACCA ATATGCACTA ACTCAAACAT GCTGTGGATT TGTAGGGGCA CTGAGGTAGC
AATGTCAAG

SEQ ID NO:1221: (Length of Sequence = 396 Nucleotides)
ATCTGAGATA CTTTGTCCTC ATGAATAAAT TAGTTAGTAG AATCTAATTT CTAGATCCTT CATAATGGTA ATTGAGGGTA
AAAAATAATA ATGTAGTAGT CAATTTTAGC CCTTTAAACC TATGGGGAAC TGTATGAATA ACTGTTTGAA ACTGCAGGGT
AATCCTGTCA CACTTGCAAA CACATAGAAG CAACAAGACT ATTTCCTCTC ACACTTTTAA TTAAAATAGT GCCTGAGTAG
ACTTCCAGGG TAAGGTTCAG AAATTTNCTT TCTAATTTCC CTGTTTTAAT GACCACTACT TTTAAAGCTA TGCTGGGAAT
TCACTTTCAC ATATATCTAA CTTACAGGAA ATTTTTGAAG AGCCTAAATG TCTATGGGTA GATTCAATGT TTCCTT

SEQ ID NO:1222: (Length of Sequence = 350 Nucleotides)
GTATTTNTTT CTGGGTACTC TTCATGGCCT GCTAGAGAAC TTTACTAAAT TATAGTCCAG TAGCTGGACA GAGCTGCATG
TGTATTGTCT AAGTCCACCT GTGCTGCTGG TCAAGATTAT TTTGCAGTGT TTGGTGGTGT TGAAGAGGAA TACTGTTGTG
AAGGCTGAGT CAACTGCATG ACAATNCTCA TGGCTCACTG GCNGATGAGT TGTGGCATGA CTAGAAAGCT CTGCTTGTAT
TCCCAGATGA CAAGTCACAC CTGAACAGCT GGATACTACT CGCATCCAAT TTGCTTCCAA GTTAACATAT TTNCAGAAAA
TATTTGGATT TGGAGTACAT ACAAATATTT

306

SEQ ID NO:1223: (Length of Sequence = 370 Nucleotides)
ATAAGCATAT GANTTTATCT ATAGGCCAAG TTAATGACAT AACTACAAAG AAATGACTTG TTTCACATGT TTTAAACCAG
TGTTTTGGCT ATACTAACTT AGTGAGACAT ATTCTAAAGA AAAATAGAGA CGCAAAGAAG ATCTTACACT TTAATAGTCA
ATTTTGTAGT TGTAATATTA CTATCGATCA TTTTGTAACT CTCCTATATA GGGTGTAGGA TGGTGGAAAT AAGTAATTTT
NTTAATGTTG TTAGGAACCA AGGCTATCAG TGTAAAATGA AGGAGTTACA AGCATAAGAT TGANAGACGG TAAGTAAAAA
GCTCATTAGT ATAGTTCCAA GTTTAACTTG TCAGGGATGA GCTCATGATT

SEQ ID NO:1224: (Length of Sequence = 188 Nucleotides)
ACATGACCNA GGCCTGACCA AATCAGACTA AATCCTANTA CCTATACCAG AGTTATTGAG AAAGATAAGN TTTGGCCTGC
NGGCCTTTGA CAGTGAAAGG NTNTAGGCTT TGGAGCTCCT CAGGGCCACT GCTTCAGGGA ACCTTGCTGA CAGTGAAGCC
AACACAGATG AAAGCAAGGC CAAACATT

SEQ ID NO:1225: (Length of Sequence = 353 Nucleotides)
CCCCAGCCAA GGGAGGCAGT NAGTNAGTGT GGTACCCAGC GTGGGAAACC GTGCTTTTTN CCATGGNACT NTGCAACCCA
CGGATTAGAA GATCCCACTC AGGAACCCAC GNCACTGGNA CCTAGAATGC CAACCCCAGA GCTGCACAGA TTCTAAACAA
CCTCTCANCT GGAATCTGCC TAACCCTGCA GAGCTCCTGC GGGGAGGGGT GACCAGTGCC ACANCTGCTG CTGCCTGCTG
CCTAAGCCAT TTAA   254

CAAAAAGTTA G.AAAACATG TAAACGTAAG TNATGAGGTA TTTCATAGAT ACAGTGCCCA TACAAATNCT CTTTCCCACA
ATTTTCAACT GCCAGATCTC TTGCTTTAGT CTTTTTNCCT TATATTTGGA GAAACAGAAG AGTTTGACAT AAAAGTCCCT
TTGAGGATGT GAGGGTTGCA GTAGTTTACA GCAGGGTCAG AAAATGAAAG TAATAAAGCA ATATTTACAT GTTTTTGTAT
AAGACCAAAA ATATTTCCTT AAAAAGTTGT TAAAAGTTTT TTAGTCCTAT AAACACTCAC TTTTATAGGG CACATGATTG
TCTGTGTGAC TTCTCTTTCC AGAGGAGGAC TTT

SEQ ID NO:1227: (Length of Sequence = 352 Nucleotides)
GGCATCTGTT TTTTTGTTTG TTTTGAGATA GAGTCTCACT CTGTCGCCAG GCTGGAGTGC AGTGGCGTGA TCTCGGCTCA
CTGCAATCTT TGCCTCCCGG GTTCAAGCGA TTCTCCTGCC TCAGCCTCCC AAGTAGCTGG GAGGTGTGCA CGCCACCACA
CCCCGGTAAT TTTNGTATTT TTTGTAGAGA TGGGGTTTCA CCATATTGGC AAGGATGGTC TCAATTTCCT GCGCTTGTGA
ATCCGCCCGC CTCAGCCTCC CCAAGTGCTG GGATTCCAGG CGTGACCACG GCGCCCGGCC GGNATCTGTA GATTTTAAAA
GGCCCCAGTG GTTCTNATGC ACACCCCCAG AG

SEQ ID NO:1228: (Length of Sequence = 387 Nucleotides)
AGTTTTCCAA GATTGAGTGA CACTATTGTA ATGAGAATCT TCACTGGAGC ATCAGAAGAA CTGATTTCAA GCCAGTTTTG
TTGGTCAGCA CGGTCAAAAC TTCAGAAGAA TCTTGTGCTC TGAGGCTTTC CAAAGCTTTG TTCCCCAGGG CAGTAACAGC
TTCCAGTGTT GGCAGAGTCT TTAGTATTAT CACCAGGGCA GCTGCACTGT GGCCTGTAGC CATCTTTCTC TTTTAGTACG
ATCCCACCTG TCAGACTTCT TGAATTTGCA CTTCAAATTA GAGCCACAAT CAAATTATCA GTCACGNTGT TTATTTTTGT
CACCAGAGAA AGGACAGAGT CTGTTTCAGC AGAGTTTGGA GCCAGGTACT GATCTCTCTT CAGCAGG

SEQ ID NO:1229: (Length of Sequence = 366 Nucleotides)

CTGATAAGGA GGTAATTTCA TAGGAGCTGC TAAGATGGGC ATGAGGNTCA AACTGCAAAG CACCAACCAC CCCAACAACC
TGCTGAAGGA ACTCAACAAG TGCCGGCTCT CAGAGACCAT GTGCGACGTC ACCATTGTGG TGGGGAGCCG CTCCTTCCCG
GCCCACAAGG CTGTGCTGGC CTGTGCAGCT GGCTACTTCC AGAACCTCTT CCTGAATACT GGGCTTGATG CTGCCAGGAC
CTATGTGGTG GACTTCATCA CCCCTGCCAA CTTTNAGAAG GTTCTGAGCT TTGTCTACAC TTCAGAACTC TTCACAGACC
TGATCAATGT TGGGGTCATC TACGAGGTAG CTGAGCGTCT GGGTAT

SEQ ID NO:1230:   (Length of Sequence = 343 Nucleotides)
AGTGGAGAGA AGCCCTATGA ATGTTTTGAG TGTGGGAAAT CGTTTTGCTG GAGCACAAAC CTCATTCGAC ATGCCATTAT
CCACACTGGA GAGAAGCCCT ATAAATGTAG TGAATGTGGA AAGGCCTTCA GTCGCAGCTC GTCCCTCACT CAGCATCAAA
GGATGCATAC TGGGAAAAAT CCCATCAGTG TAACAGATGT GGGAAGACCT TTTACAAGTG GACAAACCTC AGTTACCCTT
CGAGAACTTN TTTTAGGGAA GGACTTTTTG AATGTAACCA CTGAGGCAAA TATTTTTCCA GAGGNAACAT CTTCCTCTGC
ATCTGATCAA CCATACCAAA GAG

SEQ ID NO:1231:   (Length of Sequence = 406 Nucleotides)
CTCTCGCCGG GCAGCTTGGA GAAGGCGCAA TACTCTCCAG CTCCACCGTT ACTTCAGCAT GGCTGGGGAG GCCTTGGAAA
ACTTATAATC ATGGTGGAAG AGGAAGCAAA CATGTCCTTC TTCACATGAC GGCAGGAAGG AGAAGTGCTG AGCAAAGGGA
GGAAAGCCCC TTATAAAACC ATTAGATCTT GTGAGAACTC ACTATCATGA GAACAGCATG AAGGTAACCG CCCCATGATT
AANTTACCTC CCATGGGCTC CCTCCCGCAA GACGTGGAGA TTATGGAAAC TACAACTCAA GATGAGATTT NGGTGGGGAC
ATAGGCAAAC CATATCAATG TACATGTGTC TTTATGGTAG AATGATTTAT ATTACTTTAG GTATATAGCC AGTATTGGGA
ATTGCT

SEQ ID NO:1232:   (Length of Sequence = 380 Nucleotides)
AGACCATCAA AGGCCCAGAG GAGAGACTCT TGGGACAAAT AAATATTTAA AAGCAGTTGC CTATGAGAAA ATGGAAAAAG
CCACAAGCAA AGGTAAGATC CATGCTCCAA AAAGGCCTGA GAAAATCTTA AACCTTCTCC TCAGATTGAT CCCAAAGCTT
AGAACGAATA CCAAGATAAT AGCAAAAATC CTCCCTGGAA AAGAGTCAGT CTGCAAAAAC CGGAAAAGGA GGTTGTTTTT
TCCACAATGC CTAATTTCTA ACAACAACAA CAAAAACTCA GAAAACATGG CCCAATAAGT GGAAGAAAAT AAAGTGACGG
AAACCTTCCC CGGAGGAAAC ATAAGCTTCA GGCAAACTAG ACAGATTTTA GACTGTCTAA

SEQ ID NO:1233:   (Length of Sequence = 357 Nucleotides)
TTCAAAGTTT ATCACAACCA CCACCATCAA GACAGCAAAC CAAAGGGGCA TGGTAAAAGA AAGTTCCAGT GACTCTGGAT
TTGGTTCTAA TTTTAATGCA ACTTCTTGAT TGAGTGCAGG GTCAGCACTA CTTCGAAGTG GCTTTGGCGT TTCANCGGTG
GGTAATGGAG ACATTGCCAA ATTTATATTC TGTAATTTTN CGTTGGGTGA GGGGAGCATT ACATCATTAT ATAATGGTAC
TTCCTCAAGT TGCTGGTCAT CAGTTTCTGT GTCGTTGCTG CCAAAATCTA AAGATATGAT TGTNTCTCCA GCGGCTGGGG
CCAGCAAAGT TAAAGCATCA GGTTCCTTCT TAAGTTT

SEQ ID NO:1234:   (Length of Sequence = 313 Nucleotides)
CCAAGAAATC TTAATTNCTT TATTGTTTGA CTTTTTGACT CAACAATTTT TTTAAAACTT TTTGTTTTTT NCTGAAACGT
TCTTGTTGTT ATGAGCCTTT TGTTTTGTNC TCGTTAAATG CACTCGACCC AAAATTGGTT TGGCATATCG AAAAGGAGAC
CAAGGAGGGA GGGGCTGGGG CGTGGGAGGT GGGGAGGAGG CCCGAATGGA CAGAAAGTTG AGGATAAGAG AAGAGGAACA
TAGAGACAGC CAGAAGACA TGGGGAAAGA GTGTTGGAGA CTGACAAAGC GGAAGGCAAG CCAAGCCAA AAG

SEQ ID NO:1235:   (Length of Sequence = 386 Nucleotides)

308

CTCTCTCAGC ACAGCCTGGG GAGGGGGTCA TTGTNCTCCT CGTCCATCAG GGATCTCAGA GGCTCAGAGA CTGCAAGCTG
CTTGCCCAAG TCACACAGCT AGTGAAGACC AGAGCAGTTT CATCTGGTTG TGACTCTAAG CTCAGTGCTC TCTCCACTAC
CCCACACCAG CCTTGGTGCC ACCAAAAGTG CTCCCCAAAA GGAAGGAGAA TGGCAGCCTC CACATCTCGG GTTCAAGTGA
TTATCCTGCC TCAGCCTCCA AGTAGCTGGG ATTGCAGGTG TGCACCACCA TGCCTGGGTA ATTTTTGTAT TTTTAGTAGA
CACGGTTTCA CCATGTTGGC CAGGCTGGTC TGGAACTTCT GAGTGTAAAT GATCTGCCCA CCTTTG

SEQ ID NO:1236: (Length of Sequence = 401 Nucleotides)
AGGATGTACT TCTAGTAATG TCACTGAAAG CAGATATCAA AATTCATTAC CAGGAGTACT TTGCTGTTGA ATGGTTCCTG
TGCCATACAG AGATAAGATG GAGTCTTTGG AAAGTTGTTT CTTTGCCACT TCTTCTGATT TNTAGTTTG CTCAGTGAAT
AAATCTAGAT CCCCAGATGT TACTGTAGAC AGGGTTGCAG CTGCTGGTGC AGAGGGTGTC CCCTGAGACA AACACCAAAA
TAAGCTATCA AATTCTGCAT AGTAAAGCGC ANTTAATCCA TTACTTAAAA TCCAAATAAA GTTATAAAAT TAGATAGGAA
TCAAACAATT GTAGAAGGTA AAATGGTGCC ATTCAAGAGG ATCACTTACA AGCCCAGCCC ATATAAAACC ATCTACAATC
A

SEQ ID NO:1237: (Length of Sequence = 372 Nucleotides)
TTAACTCTTT CTNTCTTCA GTCGGATTAT AGAGTTGGAG CAAATGTCAT GATGANCTTT NAGGCCTAGG CCTGGNCTCT
TGAGGTGTGT GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT TTCTTTCTCC ATAATAGTCC CAACCCTAAA CAGGGGTATG
GCACAGTACT TCTTATGAAC AAAAGTGCTA TTGGTCTACA AGGGGACTTG AGCCTGCACT AATTGTATTT GATTAGGATT
TTTGTGCTGT CTGTATGATG TTTAACCACA CTGTCAATTA CAGACTTCCT TTAAGGAATT TCCAGGAAAC CCCCTTACCA
TAAGAGTTTA AATTAATAGT TTNCTAGTTT AATGACAGCA GTTGGTAAAG GA

SEQ ID NO:1238: (Length of Sequence = 304 Nucleotides)
GGACAAAATT CCAATTATTG TAAATGTAAA AGAAAAGACA ACAAAAATAA GCTAGAAAGA TGAAAGCTAA AAATTCTATT
TGAACTATGT AAGATGATGA CAGATATTAA ACAGTAATTA GTCATGAAAC AATCATTTAA ATGCTTTTNC CAGGGGAACT
GCAGAAGTTG AGACCCTCAA AGAGCATGCA AGCTAGTAGG GAGGCTGCGA CTCATACCTT TGAATCTTTC TGTTCTGCAA
ATTCTCAACT CTTACCAATT TAACTCTGCA GTACTGCTAT GGAAATTACA TAAGAGTAAA TTGG

SEQ ID NO:1239: (Length of Sequence = 389 Nucleotides)
TGTTATAACT GGCACTTTAA TTTGTTTTTG GAACTAGAAT TTAGGGGCAG TTGGATGAAA TTGCAAATTT AGAAGGGGAA
TAAGAATTTC CTAGTGCTAT ATAAAGAAAT GATGATGGAG ACAAAAGCCT TGCTTTCCTC TTTTTAGAAT TTATTTNCGA
TTTTNAGCAT ACTGTGGGGC TTTTAGAGCT AATATGATCT AAATNCAGAA AATTTAATTT TCATAGTAGG CCAGGTGTGA
ATTACTTATG TTTGCTATAG AATGCTTATT TAGACTAACA ATAAATTTAC TTTGCTTTCT AAGGCCAGTC AGCGAATGTG
GGGATGAGGC AGGATGTTTT AAATGAGCCA GAGATGATCC NCAAGGGGAA CAGTCGACAC AGAGGTCTT

SEQ ID NO:1240: (Length of Sequence = 365 Nucleotides)
CTCCAGCCTG GGCGACAGAG CAAGACTCCG TCTCAAAAAA AAAAGCCTTC CTTGCCAGGT GAAAGCAAGA GTGGTATGGA
ACATTTATTT AAACATAAGA AGCAGAAGGT TCCTCCTCTT GCAAGTATGT TTTCTCTAAA TGTAGCATTT CCACTGGAGG
AGGTGTTCTG GGTGGATGGT TAATATGTGA GGATTGTNCA GCCAGGCAGA TAACCAGGCC TCTGCATATA CAGATACCCA
CAGCCCAGGA ATCTTGAGAA CTGAATGGCC CATAACAACC TCTGGCACTA TCGGAGCTGC AGGGAGGCTT GGCTGGGGCT
ACTCCAGTCT CAGGCCCCTG TTTTTAGCGG GAAGTCACAA GGAGG

SEQ ID NO:1241: (Length of Sequence = 350 Nucleotides)
GGGGAGGCGG TAGGGTCTGC NCTGTCTGTN AGGGGCTTGT GGCTTGGCGG GTGGGCTTTG CATGGTCTCG CCTCTTGAGT
CCAGCCCCGT CCTGATGGGG CAGACTTCTG TNCGTNCTGC TTCCTGGGTG ATGTCAATAC TGAATGAGAG GGCAAGAGAA
GGGGAAAGGG AACCGCCCAT ATGTNCTTCA CGTGCTGCAA GGGGGCTGTN TGGTTCCCAT GAAATGGTCA GCAGAGACTT
TGGGATGGGT ATGACTCGTG GGTCACAGGG TTGACTAGAC AGAATCTAAA GAAGGTGGGT GCTTAGCTNG GAAGTCTTCA
GTAGGAACGG ATCACTGTGA AGCTCTAGGG

SEQ ID NO:1242: (Length of Sequence = 392 Nucleotides)
CTCTTACGAG TGAGGTTAAG TATTGAACAG ATATTTAAAA GCTATAAGCT TTTAAACAGA ATAGGCATAT TGCTGATACC
AGTATTTGAC AACCGCCTTG TTTTTTCAGA TAAGAAAACT GAAGCACAGA GACCATAAGG CATCAGCCTA TGGTCATTCA
CTTCGTGGTA GTCAGGTCGG AGGTCACACC AAGGCCCTCT GGCTACTGAT AATCTCTGTA CTAGGCTGCT TTTCAGTAAA
CTCTTGAATG AATGAAAGAA AGAACACATA CTGTTGACTT TTGAACTTGA ATCTAAACAA AACCTATGTT GAACTTTAAG
TCTGTAATCT AAGAACTATC AAACTTAAAC TTGTTACAAA AGGNGGTGAT GAGCACAACC ACTTTCTTTT GG

SEQ ID NO:1243: (Length of Sequence = 377 Nucleotides)
GTGGGGCAGG CGTGAGGTAG GGGTGGGGTG GGGATGACAG TCAACACAGC TTGGACCAGA AGCCCATGGC GCCTGGNTCC
CTGGAAAGGC ACAGGGCACA GACGGATGCC GCCTTTNITG CTGGGACACT CCTGCCACCA TCCACAGCTC CCCCGTCACT
CCACGTTCTT GTACTTGGTG AACAGGTTGT AAAGAACCCT CAGGGTGGAT TTNAGGTCCA AGTTAACCAC GTCTTCAGGA
CGAGCCTTGG GTTTNTTNAG GCCTCCGTCC AGCATCAGCT CAAAGGCGAA GGACACATTN TGGACCTTCT GATCGAAGCT
TTCCGGAGTC AGGTAGAAGT GGTGGAGAGG AACAAAGTAG TCTTCCAGAA GGCCCAT

SEQ ID NO:1244: (Length of Sequence = 312 Nucleotides)
ATTTTTNCAT CAATGTTCAT CAAGGATATT GGTCTAAAAT NCTCTTTTTC AGTTGGGTCT CTGCCAGGCT TTGGTATCAG
GATGATGCTG GCCTCATAAA ATGAGTTAGG GAGGATTCCC TCTTTTNCTA TTGATTGGAA TAGTTTCAGA AGGAATGGTA
CCAGCTCCTC CTTGTACCTC TGGTAGAATT CGGCTGTGAA TCCATCTGGT CCTGGACTTT TTTTTCGTTG GTAAGCTATT
GATTATTGCC TCAATTTCAG AGCCTGTTGT AGGTCTATTC AGAGATTCAA CTTCTTCCTG TTTTAGTCTT GG

SEQ ID NO:1245: (Length of Sequence = 320 Nucleotides)
GGAGATCGTG CACATCCAGG CCGGCCAGTG CGGCAACCAG ATCGGGGCCA AGTTCTGGGA AGTCATCAGT GATGAGCATG
GCATCGACCC CAGCGGCAAC TACGTGGGCG ACTCGGACTT GCAGCTGGAG CGGATCAGCG TCTACTACAA CGAGGCCTCT
TCTCACAAGT ACGTGCCTCG AGCCATTCTG GTGGACCTGG AACCCGGAAC CATGGACAGT GTCCGCTCAG GGGCCTTTGG
ACATCTCTTC AGGCCTGACA ATTTCATCTT TGGTCAGAGT NGGGCCGGCA ACAACTGGGC CAAGGGTCAC TACACGGAGG

SEQ ID NO:1246: (Length of Sequence = 275 Nucleotides)
TTTTTTTTTT TTTTTTTTTT ATCTGACAGC AATAGATTTA TTAAGTATCC CCGAAAATAT AAACACAAAC CAGTAAAAAA
CAAAACCGTA AAACGTCAGG CCTGGAGCTG CAATAAGACA GAGACAGGAG CAGCTCACAC GTGGCCTAGG TGGGGAGGAC
GAGGCCATAA ATACTGCAGG AGGGCGGCAA GGGAGCCCTA GGGCGAGGGG AAAGCAGGGT NTCGGCAGCG AGATGGCTCC
GGGGGTTTAG ACACNGCTGG CITCGGCCCC GGCCG

SEQ ID NO:1247: (Length of Sequence = 384 Nucleotides)

310

GGTCTTGCCG GAGAAGTACC CCCCTCCAAC CGAACTTTTG GACCTGCAGC CCTTGCCCGT NTCTGCTCTG AGAAACAGTG
CCTTTNAGAG TCTTTACCAA GATAAATTTC CTTTCTTCAA TCCCATCCAG ACCCAGGTGT TTAACACTGT ATACAACAGT
GACGACAACG TGTTTGTGGG GGCCCCCACG GGCAGCGGGA AGACTATTTG TGCAGAGTTT GCCATCCTGC GAATGCTNGC
TGCAGAGCTC GGAGGGNCGC TGTGTGTACA TCACCCCCAT GGAGGCCCTG GCAGAGCAAG GTATACATGG ACTGGTACGA
GAAGTTNCAG GACAGGNTCA ACAAGAAGGT GGTACTNCTG GACAGNCGAG ACCAGCACAG ACCT

SEQ ID NO:1248: (Length of Sequence = 225 Nucleotides)
AATTTGGAGA AGATAGAAGT TTGAAGTGGA AAACTGGAAG ACAGAAGCAC GGGAAGGCGA AGAAAAGAAT AGAGAAGATA
GGGAAATTAG AAGATAAAAA CATACTTTTA GAAGAAAAAA GATAAATTTA AACCTGAAAA GTAGGAAGCA GAAGAAAAAA
GACAAGCTAG GAAACAAAAA GCTAAGGGCA AAATGTACAA ACTTAGAAGA AAATTGGAAG ATAGA

SEQ ID NO:1249: (Length of Sequence = 393 Nucleotides)
CATCTATAGT CCATACATAT CTATAATGGA CAGAAATATG AGAATGAATA AGCAAAGATA CTTATGTACA CCAATAATAA
AGTAAGAAAG GTAAAAAAAT TCATGTAATA AGAAAAAAATA ACAACCCAGA AATTTAAGAN TTAAGTAGTA GTCAAATCTA
ATTGGAATAA CTCACCTATA TAAAANACAA GAGGAAGGAA ACTTTATACA TAGGTCTGGA AAATATCACA ACTATGTTCC
CAGAAGANTG TTTATCTCCA CAGCATCCAA CCTAGTGTCA TGCACACAGT TGGGACTCAG CCACTGTTGC CTGATTGATT
ATGAAGNCAG TCACTGTGAT CAACCCAACA GTAATTGAAC GTTCATTTTT AATANGGTCA GTGTTAAATC TGT

SEQ ID NO:1250: (Length of Sequence = 391 Nucleotides)
CGTATGTATC TTTNATTTAC ACTGCACACC TTGCAGCATC CTTACCTTGC AGAGTACTGA GTCCTGGCTT CATGAATTTN
ATGTCAAGTA AATGGGTTTT AGTCATCCCT AGTTCATGTG CATGTNCCGA GAAAAAGGGG AGCTTCTAAA ACATGTGCGC
AAACCACAGG AAACAGTGCA ATCCTGTGTG TCTCCTATTC CACTTACTCC TCAAGGCCCC AAGGTAGGAC GCATGTTTGG
TGGCTTTCTG GCTTACAAGT TCCAGTGCCT ACTCCCATTC CCTCAGAGGT TTGCTGTGAT CACTGAGGGG AAGCAGAATG
GAGCATCGTG TGGTCCTTAC TGGAGGACTC CTTGCAGCAC CTGAAACAAC CCAATGTTGT TAGAGGCAAA T

SEQ ID NO:1251: (Length of Sequence = 320 Nucleotides)
GCCTCANAAG GTCCTTCCCA GGCTTCTCGC AAAGGAAGGC ACTGCCTCTN CACACCTTGT GAAACCTTTC CAGGACCTCC
CAGTCAGAGG CCGTCTGGTT CTCACTGTCT GCAGAGCGCC CTACAGCCTG TCTGTGGGTG AGCGTGTCTG TNAACTCTTG
TCCATCTCTT CTGTGATCTG TGTGCTCCTC GAAATAACTG ATTTTNTCTC ATACACCTTG GAATCCTGAG TCCACAGAAC
AGAGGCTCAT ACAAAGGAAG CTTTCAAAGA GTGCTCATCG ATTTCTAGGN TTCTTGAAGA CAGGCACCAN GTTTTGTTCT

SEQ ID NO:1252:   (Length of Sequence = 367 Nucleotides)
CAAAAAAACA AAACCAGTTA TGCAAAAACA AGAGTACAAA ATGCCCCTTT CTGAAGCTCA GTTTGAGAAA CTGATTTCGN
ATCTAGCTTA TTGATTATAC TCAGTTTCAA TTCTCCCTGT GCAAATAATA CATAAAGTCA TTAATGATGA TTTGATGANC
TGAAATCATC TTCGCTTAGG ATCGTTTGAC ATCATAACCC AAATATAAAA AAGTTATTCA AGATTCACAG AGATAAAACA
GTCCCTCGGA AACATAATTC ACCCATGTAT ATATAATANT TTTNGAACAT ACTTTTTAAA CATAAAATCA CAGTCAAGGC
AGTGATAGCA TTGCATACTC AGTGCATTAT TTCATGTAGT GCCTTCC

SEQ ID NO:1253: (Length of Sequence = 393 Nucleotides)

311

TTGCTTTCAA GACAACACTC AGTTGCTAAA CCCATTTCCT TTTCTTTAGG ATATTTTCAT TGTCTCCGAA TTTTAGAGCT
GAAAAGTGCC TTAGAGATCA TCTAGTTCAA CCTCTCCGTT CAAATGGAGA ACCTGAGCCA CTAAGNTTCA CAGGNGAGTA
AGATAATTGA GCAAACAACT CCAAGTAATG ACAGAAAATT ATAGGAGAAT CAGTACAAAC TGTGAGAATT TACTATGTTG
TTAGCATCCT AAGTATGAGT TTAGAAAAGG TAGAAGTTAT AAGAAAAGTT AAATTGTTTT AATATGAATG GGATTCCACT
GTTACCTTCA NGNTAAAATG GAGACATACT TTTTNCTTTA GGTATTATAG TTAAACGAAT ATTGTATCCN GTG

SEQ ID NO:1254: (Length of Sequence = 377 Nucleotides)
CAAAAGCAAG GAGATGAGTT GAAAGACAGT TTTNCTTTAA GTCATCAGTA TGGGATGTCA GCAGAACAAA AATTAAAAAG
ATTAATTTNC CTTTTGATCT AAAACTTCCT TAGTTTGAGC AGTAGGTGCT ACAAAATTAT TTACATATCT TAGTATCATA
GTTAAATGTA ATGTGTTTAG GAGAGGAAAA CAAAAGATAC ATTTNCTTTA AATTCATTAA GAAATTTTCA AATTCACTTT
GTAGCCCATG CTGNATAGAA TTGGGCTGTG TTGGTACATT TGAAACACTG TTTATGTTGC TTGAAACACT TATTTNTTTA
ATCGCCGATG TGATGATGCC TATGGCCGAG ATCANATATA GCTAGATTGG CTAGGCT

SEQ ID NO:1255: (Length of Sequence = 307 Nucleotides)
ACAAATGTTA GCTTTCTCTG GCCTAGAAAA AGAATAGGNT CATCAAGTCA TAAAACGAAG TATGTNATTT CAGCACCTCC
ACAAAATGGC TTCATCAAAG AAGAGAATCC CATCACATGT TACCTCTCCT CTCTAGGTTC TTCAGCTGGG GCTTTGCCTG
CCCCTCTACC TATGGCAGAA CCCACTGACT CGTGGNCTTT CCAGCACTTC CACTTGCCTC CATTAGACAC TTAACCCCGC
TGNCCGCTGC CTCATGCCAG GGAGGGCCAA TCTCCAGNCA ATGCTNCTGC TGGCTGTATG ATGACTG

SEQ ID NO:1256: (Length of Sequence = 326 Nucleotides)
TTGAGAAAAC TGCAGAAGCT GGAAGGTCAA TCTCTGACCT TCTTTCCTGA GACACCTTCA TGTGACAGGT GTCCCACTTT
ATGCCTGGAG GGAAGGAATG ATAACACAAA GATACCAAGA AGAATGTGAA GAGACCTTTC TCAGTTCCCC CCAGTTCAAG
ACCATTATAT CGTACCCACT TTTGTCTAAT CANGCTTCTA TATGACTATC CATTCTTTAT CAAAACTAAA CATAGAAATA
TACGATTATC TCAATTTCTG TCTTTGNTTC TGAAGGCTCC TGTGTCACAT AAAACTTACA TTAAATAAAT TTGTATGTCT
CTCTTG

SEQ ID NO:1257: (Length of Sequence = 224 Nucleotides)
TTTTTTNAGA GGGATTCTCA CACAGTCACC CAGGCTGGAG TNCAGTGGCG TNATCTTGGT TCACTGCAAC CCCTGCCTNC
NGGTTTCAAG CGATTCTCCT GCCTCAACCT CTCGAGTAGC TGGGACTACA GGCACCTGCC ACCATGCCCA GCTGATTTTC
CTGTTTTNAG TAGAGACGTT GGCCAGGCTG GTCTCTTAAC TCCTGACCTC AGGTGATCTG CCCG

SEQ ID NO:1258: (Length of Sequence = 329 Nucleotides)
CAGGGGTTTC TTTCCCTACC CTTTGTGAAA ACCAATCAAT TACTAGATGA GTGGATGGAT GCAGAAAAAT CTGGGCTGAG
CCAAAGTCCC TTTTGGAAAT ACAAGCCATA ACATTCGAAG GACATCAGCG ACCTTGGCTT GTTTAGGTGA TTTTNCTTCC
AGCTGCAGGT AGTCTTGACA AGGAGCGTTT AANCAGAAGG CTCAAGATGC ATTCCTTGTG TAGGTGGGNG AGAGCACTTC
TAATGTTAAG TGGGGTACAG NTCAGCTGCC CCCCCACGTA GCCTGGACAT CGTCTTNTCC CCATAATCCT TNNCATCCCT
ACAAGGTCC

SEQ ID NO:1259: (Length of Sequence = 374 Nucleotides)
GGTCATATGT TACATGCATG TTTGTNCAAT ATGTGTATGT CAGGNCCATC TTCACAAATT TNCATAGCCC CTTCTGTGAT
CTGTTAAATA GGTATATTTA GCCAACCCTC TCAGCATAAA GCTCCTACCC CAGCTGCTCC CCCTTCCAAG TGCCTGCATC

312

TGCTCTTGGC TGGGAGCTCG CTTCCCAGCC TGTAGGATGG CCACCTTGAA GGCTGTAACC CTTTAGAAGA AATAAAGTCT
CCTTTTCTAA ATTTATAGAT TGTATGATTG TTTTAAGCTA ACAATAGCAA TGGCATTATC ACCTCACTTT CTGTGTGTGT
GCTTAGCATA GTACCTGACA CATGGCACTT GAGTTGGTAG CTATTTTTTA ATAT

SEQ ID NO:1260: (Length of Sequence = 353 Nucleotides)
CTCAGTCAAA AATAGCAGCT GCTGAATTAG CATGGGCATA CCAGGCAAAT AAGCCTGCAT TGTCATAGCG TTCCCTTGAT
TGCNCTATGA AACTGAGTAA AGTTTCATTT CCTGATTCAA GAATTGCAGC TAAAATATCC TCTGGACAAA GAAGAAGGGA
AATTTTTTGA TAACAGATGT GTTGACTCCT TACAGTATAA AGCCAATTTC TGTCATATCT CACCAACAAT CCTGGTTTCT
ACAGTACATC AATTTTAAGT AATGTGCCAA ATCATGGCAG CAAAAATATG TTCCCTCTAG CTGTTAGGGA CTTTGACTTG
NAAAACAGGN GTTTCAAATC ATCTTCTTCA TTT

SEQ ID NO:1261: (Length of Sequence = 294 Nucleotides)
TTAAAACAGA CAGCTAAGAT TATAGGAATA TTTTAAATAA ACAGCATTTA TTTTAGACAC ATTTCAAATA GAAGCCACAA
TAATCAAATA GATATTATCT GAAAACGTTT CAAAAATATT AACCCTTTAA ATGTTCTTCT CTGAAAAAATT AGTTTATCTT
TAACAAATTA TTCTGAATTA TTGTGTCAAC ATATAAGGTT ATGCATATAT ATNCACTTGC TGGTCTCTAT GTTAAAGCAA
ACTAGGTAAA AACTAGAGGA AATATCTGGA NCATAAAATG GTTAACAATT TACG

SEQ ID NO:1262: (Length of Sequence = 292 Nucleotides)
ATGATGAAGG GTTGGAGTGA TGCACCTAGA AGTGAAGGAA TGCCAATGGT TGCCAGCAAA GCACCAGAAA CTAGGGAGAA
ACAAGGAAGG ATTCTNCCAC AGTTTCAGAG GGAGAATGGC CCTGCCAACA CTGTGATTTT GGACTTCTGG CCTCCAAAAC
TATGAGACAA TAAAATNCCTG TTGTCTTAGA CCACCCAGTT TGTGGAATTT TNTTACAGCA GAACTAGGNA ACAAATACAG
TTTTTTTTTG CAGTAAAGAA GTTTTAAATC TGGGTTATGT CCAATGTATC AA

SEQ ID NO:1263: (Length of Sequence = 303 Nucleotides)
GGTTGAGGTT GTGGGTAGGA TGAGAAGACG ACAGGATGAA TCTTACCCCC CAGCTTTAGT GGAATTCTGT GAAACACCTG
GGAATGTGTT AGCATCAGGA GAATTCCTCT AAGGTATGAA GAATGACAAC CTGGGACCTT TCTTGTAGGT GGCTCTGAAC
CTAACTATTC CCCAAAGATT CCCAAGTGGT AGGAAGGAGG GGGTGCAGAG GGATATTAAT CATGGTCATT AAGTCTCAAA
ACATTTCTAC TTCAAGTGAA TACATTAACC ATGCTGAGGC AGTTGAACAA CTGAATGCGT AGT

SEQ ID NO:1264: (Length of Sequence = 313 Nucleotides)
GGGACTACAT CAAGCACCTG CGCGACATCT GCGAGGGCTA CGTCCGGCAG TGCCGCAAGC GCGCAGACAT GTTCAGCGAG
GAGCAGCTGC GTACCATCTT CGGGAACATC GAGGACATCT ACCGCTGCCA GAAGGCCTTC GTGAAGGCCC TGGAGCAGAG
GTTCAACCGC GAGCGCCCAC ACCTGAGCGA GCTGGGTGCC TGCTTNCTGG AGCATCAAGC CGACTTNCAG ATCTACTCGG
AGTACTGCAA TAACCACCCC AACGCCTGCN TNGAGCTCTC CCGGCTTACC AAGCTCAGCA AGTACGTGTA CTT

SEQ ID NO:1265: (Length of Sequence = 290 Nucleotides)
TTTCTATGTG TAAGAGAAAA TAGAGATGGG TATACATACT GTTGTTTTTT TTGAGCCGAG AAACTGTGTG ACCGGGGCCT
CAGGTGGTGG GCATTGGGGG CTCCTCTTGC AGATGCCCAT TGGCATCACC GGTGCAGCCA TTGGTGGCAG CGGGTACCNG
TUCTTTNTTG TTCAACATAG GGTAGGTGGC AGCCACGGGT CCAACTCGCT TGAGGCTGGG CCCTGGGCGC TCCATTTTNT
NTTCCAGGAC CATNTGGTTC TTTGGCGGCA CCCACGCAGC CCTGAGGNTT

SEQ ID NO:1266: (Length of Sequence = 322 Nucleotides)

313

CGGACAGATG TCACTCTCGC CCGAGAAGGG GGACACTGTG ATGGTGTTCT TAAGCTCATA GAGTGGCAGG TTGTCTGAAA
TGCCACCATC CACGTAGCGC ACCCCCTGGA GGGAGGGAGG GATGAGCCCA CAGTACACGG GGATGAAACC NCTGCAGACA
TTGGCCTGGA TGAGCTCGTC CTTGGAGTTN AAGTGGGATA TAATGACATT NTCGCCGTCT GACACGCGGG TCAGGGAGAT
GCCCAGGCGC CCACTGGCAT GCTCATGGCT ATCAGCAGGC AGGACCTTNA GCAGGAAACT CGGGATGATC TTTTACCAGG
TT

SEQ ID NO:1267: (Length of Sequence = 310 Nucleotides)
GTAACCCATC CCATAGGGTT GTNCTATGTA TTCTTGCCAG GTGGGGTTGG AGCACCTTGT GAGCTCAGCA GCCCAACATC
GATAGTAAGG GAGTCAGGGT TTCTTCATCT TCCCTAGAGT TAGAACTCAC TTCTACAGCC ACTGTGTCAG GGACCACTTT
GAGCGCCCTT GGCACCTGCT GGCTGGAAAT CAATTTAGCT GTAATGGATC TGGCCCAGCT TTTCCTCTCT TGGGTCATCT
GCACTCATAG TGGTTGAAGC AAGATCTACC AGATGGGAC ATTGAGATGG TCCCTTTCTC CTTCTCATTT

SEQ ID NO:1268: (Length of Sequence = 338 Nucleotides)
GGGCTGCTCG TGAGGATGGG ACAGCATTGA CTTACTGGGG AGACTCCCTT GATGACAGCC TTACACGGTT ATTCATAAGG
AGGCAGGAAG AGGCGCTAAC AGTAAGCATG TTCTGGGTGG TCTTCGGGGT GCACATGTGC AGCAGCTGTA CCTGCTTGCT
TGTATGTTAC ATGTCTCATT AACATCTGAA ATCTCCACCC GGGAGTGTGT TTTTNACTAT TATAATGAGC AAAGGTTCAG
TCTGAGGACA GGTAAAATCA AAAATGTGCA CCCTCTTACG GGGGAAATTC CTTACTGGAG CTAGTTTGGC TTGAAGNGAA
CTGGACTACA GTGTGAAT

SEQ ID NO:1269: (Length of Sequence = 363 Nucleotides)
CTGCTAGAGA GTATTTCAGG GTCTGCAGCA TGTTGTTAAG GCCATTAAGC ATATGTTAAG GCCATTAAGA GCAGTAATTA
TAAAAGGGCC CTGCTAAAAT AAATATCAAG TTCCCTTAAG AAACTTCAAA ATTATGAAAG TTTCAGGTCA TTATTTTGCT
ACAAATGANC TTAGCAGCTA AGNAAAAATGT CTGCCTGCTT ATAAACTAAA TATGGTATAA TTATATATTN CTNTTATGTA
TTTCTAAAGC TACATTTTCA CCCTAACTCT ACTACAAAGT AGTTTCGGGA AACAAAGTAA AAGCAGGGGN AATCCAACTT
CAAATATAAT CAAATATAT   339

GATAAGTGAG ACTAATGGAA TCGTTTCCCT CTAACTTCAT AAAAACTTTA AGGATTATCT TTCTTGAGTT CTCTGTATTT
CTGTTTTAGA AGAAAAGAAC AAAATTTCAG AAACAAGATT ATAGTGCTTT TNCTAAAGTA TAAATACGTG GGCCCTATAC
AAACTGGCAA ATTCATTAGT CTTAAAGCAG ACATCCAAGC TATTGTGGGT GTTTGGATGA CACCATTTTC ACAGTAGGAA
ATCATTTCAT TCTGAGCGTG GGAATCGGCA TTGGTTAACG CATGAGGTTT TATGTGGTAT AAACACCTGG GAAGTGAGAG
AAAAGNCAGC ACAGAAGCTC TGTGGGAGCT CTTCTGAGCA TTG

SEQ ID NO:1271: (Length of Sequence = 335 Nucleotides)
ATGCCTCTGG CTTGTTTGAC TGCAAAAGGT GATGTGCAGG GGTAGAGGTA GGGTACTAAT TTACAGTCAC CAAAATTAGT
ACTGATATTA ATCAGTTTAG TTGGATTAAG ATGAACAATG TTTAATGCTT TAAGGNTCAT TTTTTGCCCC AACAGGACTG
TGCTATATTA AATGACACCG TGCCCAAAAG CTCAAAAATT ACATAGAAAG TAAAGTACTT CTTGAATACT AAAACAGTTA
AGCATAAAAG GTTGTGAATT GGTCCCAAAG TGATATTAAC TTAAACATTT AATCCTACGN NCTATCTTAG CTGTACCCTC
TAAAAATGCT TAGGA

SEQ ID NO:1272: (Length of Sequence = 323 Nucleotides)

314

GTTTTAGATA TTTTAAGATA TTTAACTGTC CCCTGTGGCT TTTAAGGAAA AAATAAGTAT AAATNCTTGA ATATTAAGAN
TTTTAAATCA GCTAAATTCA GGGCCAAGAA CTATTTAAGA TGATTCANTG AGAAAGAAAA GGACCTAACC TGGAAAAAGA
GTTTCAAATA TGCCAGTACG TAGGGTATTT NTGGAAATAC ACAGTCTAAA ATTAAAAATT NNAACTNATC AATGGAATTT
AAATCTATAG CACTTTAAGG CTGTGGAGCC CAACANTAGG GGNTACTTTG GGGGCACATG ATCTTTCAAA ACATAAATTA
GGG

SEQ ID NO:1273: (Length of Sequence = 368 Nucleotides)
GCAGCCTGGG CAACAAAGCG AAACCCTGAC TCAAAAAAAA AAAAAAAAAA AAAGTCTCTT AATCACAACA GCAAAGCTCC
AAAAGTTCAA GCATCACAGG TAGCTAGTGG CTACTATATA GGNCAGCACA GACACAGAAC GTTTCCAACA TCACACACAG
TTCTANTGGG TAGCAATGAC CTATACTGCT GACCATGCTG NCCAACATGT NTGCAGCAGT CCCTCATCCC TCTGTNGTCC
CCTGTTACAA GCTTAGANCC CCCTCCNNAC GCTCCTCCCC CATAAACAGG GCAAGTNGGG CAGAAGGTGG AATCCTTTTC
AGGGGGCAAA T   331

GCAATGGGAT CTGGAGCCAA AGAAAAATAT ATCTGAGTTC TAGCTCCTCA CTAAGTAACT GTGTGATAAT GGGTATGTCA
CTCACCCTCT TTCAGCTTTG GGTCCTTTAT GTGTAAAAGG GAAAAACATA TGCCTACATC ATAAGGCAGA TGTGAACATC
AAATGTTATC AGTAACTGTC AATCTGTTTT ATTAATTGTA GAATGTCCAA AATATTAGTT TGTATGGACT TCAATGAGTA
TGTTTTGTGG AGTGGAGTGG GGGAAAGGGA TCATTGCTTA CCCTCTGCAC ATATCATGTT TCAGCCTAGT ACAAGGCAGC
CATGAGCACA AAGGGCTAAG CTACTTAAAT CAGNCCCCAA ACAACTTC

SEQ ID NO:1275: (Length of Sequence = 319 Nucleotides)
AGATTACTCT TTGCAGAATT TTGGTTAATT GTGAAGCTGA AATATCCTGA CTCTACCTCA AAGTTAATGT TTTAGGTAAC
TGAACAGGTA TTCTNCCCAT TACTAGTATT GAAGTCAGAA TACAGAAACA AATAGTTACT GCCAGAAGCA GAATGGAAGA
GCCAAAAAGT ACACAAAATG GACGCCATAA ATNCTGAAAT AAAAGTGTAT GATGTGTTCT GAGTCACTGT AGAAGTCATG
CATTTATTAT CAAGATAGAA AAGAGCAGAG AATGACGTGG GACATTGGTC CTCGGAGGGC TTCGTANGTG GTTCGGTCC

SEQ ID NO:1276: (Length of Sequence = 324 Nucleotides)
CTGCATTGGG CAGGACAAAA CCTGCCAGAT TCAGAAGGTC ACGANTCATC TGGCCTTTAA TGCTGATATC CAGTGGAGAG
CTGGAGTGGA GGCTTGGGGA AATATTGACT TCCAGGACCC AGGGCTTGAG GTTTTCNTCT AGCATGATGT CAAAACCAAA
GAGTTCATGG CAGCTATAGG GCCGTCGCAC ATACATCTTG AGCAGGCTGG TCACATAGGG CTCTGACGAG ATGATAGTTT
TGACAACAAC ATCCTTTATC TTCTCCCAGA TGGCGTCGCT ATTGATTNCC CTTCTGGGCT CAGGTAGTTC CACAAAAGCC
TTCA

SEQ ID NO:1277: (Length of Sequence = 388 Nucleotides)
AGCAAGGCGG TGGGGTAAGT NTGGACCTTT GTGTACCAGA GAGAACATCA TGGTGGCTTT CAAAGGGGTC TGGACTCAAG
CTTTCTGGAA AGCAGTCACA GCGGAATTTC TGGCCATGCT TATTTTTNTN CTCCTCAGCC TGGGATCCAC CATCAACTGG
GGTGGAACAG AAAAGCCTTT ACCGGTCGAC ATGGTTCTNA TCTCCCTTTG CTTTGGACTC AGCATTGCAA CCATGGTGCA
GTGCTTTGGC CATATCAGCG GTGGCCACAT CAACCCTGCA GTGACTTTGG CCATGGTGTG CACCAGGAAG ATCAGCATCG
CCAAGTCTGT TTTTACNTC GCAGCCCAGT GCCTGGGGGC CATCATTNG AGCAGGAATC CTCTATCT

SEQ ID NO:1278: (Length of Sequence = 354 Nucleotides)

GGACTTGTAC CCTGGGTGGT GAGAAGACCC TGATTGGTTT TATTAGTGCA TTTCTGTAAG TNACTGGGAT AATCATGTTC
AGTTCAGCAT TTTATGTGAG TTTCTGAAAG CNCTTTAATC AACTCCATAG ACAAGATTAT AGTGTTGCAC AGCAATAGGC
ATGGGCCATG TCTGCACTGG AGGTAAGTTG CAAGGTACAC CCACGGGTGA TTTATCACTC TTACAAAGAT GATAACTAAT
GAAGACCGCA TCTAGAATGC TCTTACTGGA GATGGTTTAC AGAGCATTTT TAATCATCAT ACTTAGATTT ATATTAATAT
TTCTTTTCAA ACTAAATTAT TCCAAACTGT GCCC

SEQ ID NO:1279: (Length of Sequence = 347 Nucleotides)
CCACTTCAGT GCTTCTGTGT CCCGAAAAGA TCTTTTGACG CATAGGGCCT AACTGTAATA CACTTAAAGG ATAAGTCTCC
ACCCCAAGGT GAACATGGGT CATGTGTTAC ACGCACATTA GTTCATTATC CATGTGTGAG GACCTCCTTT GTGAACAGTC
ACAGCTCCTC CTATAACCTG TTAAATATGT ATGTTTGATC AACCCATTCA ACTTAAATNC TTGTCTTACC TCTCCTTCCC
TCAAAGTGCC TGGCTATACT TCCCAGCCTG CGGGATGGCC ACCTTGCAGG ATGGAACCCT TTGTAAGAAA TAAAGTCTCC
TTTCCAAATG TACACATTGT ATGACTT

SEQ ID NO:1280: (Length of Sequence = 344 Nucleotides)
ATCCTTAGCA TGCCTGTNTT ACTGAGACCA TAAACTTTTT TNTTTTCCTT CTGCCTTCAC CCAGTGTGTG TTAAGTCTTG
CTTGTTAAGC TCCCACACTT AAATGGCTGC TTGCAGAATT GCAAAGGGAC TAGGGAGAGA ACAAAAACAG ATATGCAGGT
GGTGGTTGTT AACCAGACAG GATTTCTAAG GAGGGTTCAG GCAGTCAAGT GGTTTTNTGT ATGTNTTTTA TGTTCATAGT
TTTGAGTTTT ACAATGTGTG AAGCTTACTT TTGCTAGCAT TAGGTATAGT TTATTTTGAA AGAATGAGGC TCCTGAAAAT
AAACATGCCC AGTAAACTAT ATCT

SEQ ID NO:1281: (Length of Sequence = 331 Nucleotides)
TGAGGAACAT AAAATGGCTT GGTAAAAGTA ATAAAATCAG TACAATCACT AACTTTCCTT TGTACATATT ATTTTGCAGT
ATAGATGAAT ATTACTAATC AGTTTGATTA TNCTCAGAGG GTGCTGCTCT TTAATGAAAA TGAAAATTAT AGCTAATGTT
TTTCCCTCAA ACTCTGCTTT CTGTAACCAA TCAGTGTTTT AATGTTTGTG TGTNCTTCAT AAAAATTTAAA TACAATTCGN
TATTCTGTTT CCAATGTTAG TATGTATGTA AACATGNTAG TACAGCCATT TTTTTCATAT GTGGAGTAAA AATAAAATTA
GTATTTTTAA A

SEQ ID NO:1282: (Length of Sequence = 310 Nucleotides)
CCATGTCAAA TGTAGTTTAC AAAGGGAAAG GACAAGTACC TTTNTATAGA ATATACAGAC ACAGCATCAC ACCACAGGGC
CCACGGGAGG GTCGGGGAGA CGACACTTTT TCCCTGGGAA AGGCAGCTCT AATCCCAGGA ATGGTTCTCN GCAGAGGCTG
GGTGGCCAGG AGCACTGTCC TCTAGCCCCC TAACTCAGCC TCTGCTTCAN CTCGGTTCCC ATTTCCTGCC TCTACCCCCC
AACTCCTTAT AAAGAGCCCC ATGAGCTAAG ACTAAGGAGA GGTTCATNTC CCTTGGGCG TGTGCCCCAT

SEQ ID NO:1283: (Length of Sequence = 323 Nucleotides)
ATGAGGATTA ATTATATCTG TNTCACCCAC ACAGCTCCCC CATACCCATA ATCTTTATTT ATTTNCTTCG TTTCTTCCTT
ATACCTTGTT TCAGGCATTA AACCATAACC TGTTATTTAT NCTATCCTTT TCAAAACAGG TGTGGACCAT GCACAGATGA
CCTATGACGG GCAGCACTGG CACGCCACGG AAGCCTGCTT TNNTTGTGCC CAGTGTAAAG CCTCTTTNTT GGGATGTCCC
TTCCTTCCCA AACAGGGTCA GATTTACTGC TCAAAAACGT GCAGTCTTTG GGTGAAGACG TCCATGGCCT CTGAATTCTT
CGG

SEQ ID NO:1284: (Length of Sequence = 283 Nucleotides)

316

TTTTTTCACA AGGTGAAAGA CCTTTATGGA CATGACAGAG AGGACCTGAG TTAAGAGGGA AAATACATCT NCATAGCTAG
GTTCACATTC AGTTATGTTA GTCCCAAACC TACAAATTCA ACATGATCCC TATTAAAATC CTACCAATAT AGTTCAAAAG
CTTGACAAGT TGATTGTNAC ATTTATATGA GAGANTAATT AAAAAAAAAA AAAATAGGGC CAGGTGCAGT GGCTCACGCC
TGTTATCCCA GCACTTTAGG AGGCCAAGGC GGACAGATCA CTT

SEQ ID NO:1285: (Length of Sequence = 341 Nucleotides)
CATTCTNATG ATGTAGAGGC CAAAATGGTA TTTNATAAAG AGGAAATTAC TTCTGANCCA CCCCAGCTGG AAACACTGGT
AGTATCGGCA GCAGATGTGA TTACATCCGT TTTGGTATTA CACATCGTAT TTACAGCAGA CATGACTGAN CTGGGAACAC
TGCCCTGTGA GACAGCCTGA AAGTTTTTTN CAGATTTTNT GTGAACACTG TCTGAATTCA CATTTGGCAA AATGATTCTN
CCAGTTTCTC CGGCTTCTGC TAGTTTGAGG CAATCTGTTT TATGTGCCCC AGCTGAAGAT CTTTCACTAA CTCGATCTTT
AGAAGCTAAC TGCATTGCTG G

SEQ ID NO:1286: (Length of Sequence = 354 Nucleotides)
GCCCTATTTG TACAAAGTGT GCATGTNAGC GTGCGTGTGT GTNTTGCATT TTTCCCCCTT TAGGTGGTTC AAATTTGGAA
TTTGTGAAGG CAGAGCTGAT AATTAGAGAC AATAAAAATC TGCAGAGTAG ATGGTTCCAC AAACAAGACT ATGAAAGAGG
GGATAAAAGA AGAGGTCAAG AAAGACTCAA GAACAGTATA TAGAAATAAT TCAATTACAT TATGTGTATT TTAAAGAAAA
CATGTTCAAA CTGCATGAGA CAGAAAATAG CACTCNGTTA TCCTCCTAGA CTTCTNAAAG TTTTGAGTTT GTCTGCAATC
TTCTTCCATT AATCGNCTTT TGCCATCTTC AGAA

SEQ ID NO:1287: (Length of Sequence = 354 Nucleotides)
CTCTCTCACC CGGTGGCCTA TAGCCCCCAA CGTGGTCAGC AGCTGCCTCA GCCATCCCAG CAGCCTGGTT TACAGCCCAT
GATGCCTAAC CAGCAGCAGG CGGCTTACCA AGGCATGATT GGGGTCCAGC AGCCACAGAA CCAGGGCCTG CTCAGCAGCC
AGAGGAGCAG CATGGGGGGC CAGATGCAAG GCCTGGTGGT TCAGTACACT CCACTGCCTT CTTACCAAGT TCCAGTGGGT
AGTGACTCGC AAAAATGTGG CCAGCCGCCT TCCAGCAAC CCATCTGGT CCCTGTGAGC CAGTNTGTGC AAGGAGGCCT
NCCAGCAGCG GGGGGTACCA GTGTACTATA GCAT

SEQ ID NO:1288: (Length of Sequence = 231 Nucleotides)
TTTACTTAAT TGGTATAGAT TGAGGNTCAT GCATCANCAA GCAGTTTTGA AATTNTCCCC AAGTGATTCT NACCTGCAGC
CTGGGTAAGA AGTCGCAGGG CTCCTGGATA GTCATTAAGT GAACTGTGGT AAGCACTGAT GTAGCAGGAT TACCTGCCCT
ACTAGGTGCC GGAACTGCAT TTNCTTGCTC ACAAGTAATT TTTTTAAATG TATGCTCGCA TCCCTGCCTT G

SEQ ID NO:1289: (Length of Sequence = 329 Nucleotides)
GGACACTGTG AGGGGAAAGG ACAATTTTAA AATTCCTTTT CAAGGAAAAA AAAGGTCTTT ATGCTTTGCC ATGAGGCCAC
ATTCAGCTGC TATTTAANCT TAATATCTTG AACCTAAAGA ATGCTGACTT TNCCTACATT TCCAGAGTTA GGCAGTATTC
TACACTTAAA GACTACTACT ATTTTNATAA AAGTAATCT ATTCAAATTT CTTCACAGAT TTCCCTTGCT GGGGATCAGT
TAGTAAAGAA GGAGGAATTC CTCTTACCCA AGAGGAATTG CATTGCTTTA ATTTAGCAAT GTGAGGTAAG GCCTGCCNAG
TGCCCAGGG

SEQ ID NO:1290: (Length of Sequence = 297 Nucleotides)
GGAGGCACAT GTGCAGCTTT GTTTCATGGG TAAATTNCAT GTTTCTGGGG CTAATGTGGT TTCTTTTACA GAAAAAGTA
TCAGAAATAA TCGGTTAACT TTNCTCACAT GGTCTTAACT CTTCTTCAGG AAATATCTAA CTTGTAAGTG CAATCCTTCT

317

TGTATAGCTG CCAGACCAGA CCCAGATAGA CCATAATAAA ATAAAATACA CAGTCAGTTT TTAATGCAAG CCAGAATGAC
TCTNCTGTAT CTTTAGCCTT TCCAGGGGGA TACAGTGAAC TCAGATATCC CTGCTTA

SEQ ID NO:1291: (Length of Sequence = 317 Nucleotides)
CTATAATCCC AGAACTTTGG GAGGCCGAGG TGGGCGGTTC ACCTGAGGTC AGGAGTTGAG ACCAGTCTGG CCAACATGAT
GGAACCCCAT CTNTACAAAA ATAAAAAGCA AGATATGCAA AATAATGTGC CAGTNTGGTG CCGTATACCT TTAGTCCCAG
TTACTAAGGA AGCAGGGTGT CTNAAACAGA AGAATCACCT GAGCCCAGGG AGGTCGAGGC TGGCTAAAAA TAGATCTGGG
GGTAGTGGTT AATNGGGCCT TGTGAATNAT TCAGCATAAG GAACTGTCCA ATATTTTTTT AAGCTGTCAG AAAATCC

SEQ ID NO:1292: (Length of Sequence = 293 Nucleotides)
GAAGATGGAA ATAGACCACC ATACAAAACA AAAAAGACAG AAGAGAATAT TAGCACTCTG TTGCAAAGGA GAATAGGTAT
GCTCAACTGG TAAGTAGAAT GCAAATATTC CAATATCTGA AAAAAATCCC AAATCCAAAA TACTTCTGGT TCCATGCATT
TTTNCTAAGG GATACTCAAC AGGTATTTTA AAAGATCAAA ATACAGATCA GAGAATATGG ATACTTGAAG ATTATGAGCA
AACGAGGATT AAGGNAAACA TGTTGGAGGA CTTTTTAAAA ATGTGTTAAA GGG

SEQ ID NO:1293: (Length of Sequence = 310 Nucleotides)
TCCCAGAAAC ATTACGGTTT GATATCAAGT TCCTATTTTA AGAGTCACCC ATTTGCCCAC CATAAGTNCC TGGAGAAGGT
AGGGTATTAC AGGACTAACC TTCCAGTGGC TGATTCTGGT GGTTTCCACA TTCAGGTTTC TCTGATTTTN ACAAGCTTTT
TCCCATAAAG ACTGCATTTN CTTTAAAAGC TTCTCCTGCA AAANAGCCAT AAATTGAAGC ACCAGTGAAG ACAATAAAGT
AACATACAGA CCGTTTCATT GGGAGGGGGC CCNGAATGNG AGACAAATAA GTCCCTAGTA AATGGCATTT

SEQ ID NO:1294: (Length of Sequence = 275 Nucleotides)
GAATGACGAT GTCAGGGGCA TCAGGAAAGG TAAGGGCCGG GAAACCGGGC CCTTGGAGAA CCCTGCCCAG GGGAGGCCCA
GCCTACTCAC AGGNTCCGAC ACTCCAGGCA GAGCAGAGGG CAGGAGAGGC CCAAAGAGCT AGGTCAAGCA GCTGGCTCCC
CTGGGGTTAA ATACATGGGT TTTTGTTTTA CTGCTGTGCT TGATATACAT GAAGTAATGA ATACCAAGCA ATTCATTTTT
CCTGCATCTT TACTTTTACA TTTGTNCTTA GGTTGCCTAA AACATTTNAA ATACAATAAA ATGAGTGTAG CAAAAATTAT
TGAAGCT   327

CAACCTCTGC CTCCCGAGTT CAAGCGATTC TCCTGCCTCC CGAGTAGGTG GGATTACAGG CATGATCCAT CACGCCCAAC
TAATTTTTTA TTTTTAGTAG AGATGGGGTT TCTCCGTGTT GGTCAGGCTG GTCTCGAGCT CTCGACCTCA GGTGATTCAC
CCACCTCGGC CTCCCAAAGT NTTGGGATTA CAGGTGTGAG CCACCGCGCC AGGCTACTGG TCTCAATTCT TTTGGATACC
CAGAAGCAGA AATGCTGGGA TCACATGGTA GTCTC

SEQ ID NO:1296: (Length of Sequence = 247 Nucleotides)
GGAAGGAACA ATTGATAAGA ACCGGGGACA TCAGGGAGAG AGAGTATTTG AGCTGGGCTT GATTCCATCG GGTAGTATCT
GGAAAAAAAA AAAAAAATCC CAGATGAAAG AATGTACAAA GACATGAGCA TGCAGGGCAC ACTTTGGAAA ATGGGNGAAG
TCTGACAGGC CTGGGAGAAT GAAGACAAGT TAGCACCAGN TTNAGAAGGC CTTGATTACA NGGCCAAAAC TTTTGGATTT
TACACTA

SEQ ID NO:1297: (Length of Sequence = 246 Nucleotides)

318

GACTTCTTAC AATGCAGCAG CAAGAGAAAA TNAGGAAGAA GCAAAAGCAG AAACCCCCAG TAAACCCATC AGACTTCGTG
AGACTTATTC ACTATCACTA GAATAGCATG GGAAAGACCA GCCCCCATAG GTCCACTACC TCTCCCTGGG TCCCTCCCAA
AACATGTGGG AATTATGGGA GATACAATTC AAGTTAAGAT TTGAATGGGG ACACAGTCAA ACCATATCAT TCTGCCCTTG
GCCCCT

SEQ ID NO:1298: (Length of Sequence = 263 Nucleotides)
CATTGCACTC CAGCCTGGGC AACAAGAGCA AAACTCCATA TCAAAAAAAA AAAAAAAAAA GAATTGCTGA CCTTTATGTG
TTTCTGTTTA AGTTCACAAC AGTCATAATT CTGTAAAATA CAAGGCAAAA CTGTAGTTTC TGATACTAGT AATATATCTA
ANTCAGTAAG TAAAAAGGAT GTGTAAAATC TTAATAGGGG AAATAATTAT TGTATGANCA AGCAATTTCA AAATCAAAAG
NCACGTTTCA GTATATATTA TAG

SEQ ID NO:1299: (Length of Sequence = 272 Nucleotides)
ATCTNATTGT TGTGTAGTTT ATGGCAGTGG TCTCCAGACT TTTTGGCACT AGGGACCAGT TTAATGGGAG ATAATTTTCC
CATGGACGAG GGGATGGGGA GGAGGCAGGG GTGGTTTCTG GATGAAACTN TTCCACCTCA GAAGATCATC AGGCATTAGT
TTCTCATAAG GAGGCAAAAC CTAGATCCCT TGCATGCACA GTTCACAATG GCACTCGTCG CATATNCCGT CGACAACCCT
TTTTTGAGGT TCCATGCTTC CCATTTGGCT TT

SEQ ID NO:1300: (Length of Sequence = 277 Nucleotides)
ACCACTGCAC TCCAGCCTGG GTGACAAGAG CGAAACTCCA TCTTAAAAAA AATGTGTAAA ATGAAGATTA TCATACTACC
TACATCATAG AATTGTTTTT AGTGTAAAAT GTGTGTGTGT ACATTTATGT AATAGTTAAC ATTTAAAGAG CACCTACTTT
GTGTAAACAT ACTTTGTATG AGATACTGTT CAAATATATA TNCTAATATA TGCAACATAT TATATATGTN AGAATAGGGT
CTTATATATC TTAGGAAGTT AGATCTTATA TGTTTGA

SEQ ID NO:1301: (Length of Sequence = 304 Nucleotides)
GGTTGCGGGT TATGTAAATC CCAAACTTAT GAACAGGAAA TGTGTACAGT GCATGATAGG TTAAATTTTN CTTTATTGTT
GTCCAACGCA GGTCCTTTGG AGAGAAAAAA AGATCACAGT GCTGACCAGG TAACTCAATA GGTTAAGTCA AGGTAACCAT
TGAAAGATAA TAGGATTAGG GAGGTGTTTA TTTTATGGCA TCTTCTCTCA TGGAGTTCTT AGCACTTCGG ACAATTTGTC
TNTTCCCCAC TTTGTACAGC TGTTATGTGT CATTCACCAG CCGGCTGTAT TTAACTTGCC TACT

SEQ ID NO:1302: (Length of Sequence = 335 Nucleotides)
AGTTTATTGC CATACAGAAA ACATTTTATA AAATAATATG GTAGACTTCT ACTTCAACAT ATTCACGTAA AAACATCACA
GTGCAAGAAA GTGATCACAA TTAAGCATGA AGACATCAAA AGCCAGCCAG TATTTTAACT ACAGAGCAGA ATATTCTTGC
TGTCCCTTCC TAGAAAATGT TGGCACATTC ATTAACTGCT CAGGTTACAA AAATCACTTC GTGTCCACTT CCTGTCCTTC
AATATATTTN CATAACTACA CTGTGTTACA TTAATGCTGG TGGACAAATT AGCTCCTATA AAATCTAAAA ACCTTTTCAG
GTGGGCACAA TGGTT

SEQ ID NO:1303: (Length of Sequence = 316 Nucleotides)
TGGAGCTGTA TATGGTCCGG AGTTATATGC AGCATCCAGC TTTCAAGCAG ATGTNTCCCT AGGCAATGAT GCAGCAGTGC
CCCTATCAGG AAGAGGGGGT ATCAACACTT ACATTCCTTT AATCATTCCT GGCTTCCCTT ACCCTACTGC AGCCACCACG
GCAGCCGCTT TCAGAGGAGC CCATTTNAGG GGCAGAGGGC GGACAGTATA TGGTGCAGTC CGAGCGGTAC CTCCAACAGC
CATCCCCGCC TATCCAGGTG TGGTTTACCA GGGACGGATT TTACGGTTGN TGACCTCTAT ATAGATTCTG CAAACT

319

SEQ ID NO:1304:   (Length of Sequence = 211 Nucleotides)
TATTTTTTNC TTCTTCTCTC CCTACATATA TTCTAAACCT TCTAAAGTTT TTTNATTTTT TTAAGGATCA CTTTATCATA
AAATAAAATA TCCTTTTCAT ATAATAAATT ACCTAATAAA AAGTCTTTTT TTTTCATATT AGCCCAGGTN CTTTGCTACA
TTTATATGGT AATAAACGCC TTTATTAAAA TAGANTATTA AATTATAAAG A

SEQ ID NO:1305:   (Length of Sequence = 316 Nucleotides)
GAAATGATTC AGGGAAAAAA ATTTATAGTA CGTTTTCAAC TTTTTTTTTT TTTCTTTGAA ATGGAGTATG GTCATAAAAA
GGACACTAAA TAACCTGATT AAGCTAGAGT ATAGACCAAA TTGCCACTTA CTTTGAATTG TTTTTACCAA AGGTATCACT
TTGAATAAAG ATAACTTTCA TTAGACATCT ATCTTTATGT GTTCCTGCCA TCATTTCAGT GAGATCAGAG GAAAGTTAAA
TTAGGAACAA TGAAAAAGCT TAAGAAATGA ACAATCATCA TGCTTTTGTG TATGCTTAAA GTGAGTACAT GTAAAA

SEQ ID NO:1306:   (Length of Sequence = 310 Nucleotides)
GGGGATTTTT GAAGGCTTCG CTGTGGATGG CCGAGAACCT GCTCGGGGTG TAGGTCTGTG TGTCTGGGGG ACAGTTTCCA
CATCTGAGCA CACGGACTGG ATTTCTGAAA TGTCAAAGTC TGATGCATCA CTGCCTCGGC GGCTGCTGGC CCTNCTGCCA
GCTTTGCTTC CAGCTCGACT TCCTGGTCGG CTGGGAGTCT TCTTGGAATC AGCAAACTGT GTTCGGACTC TGGCAGNTGC
AGTTGTTATC AAGCCACTGT CCTCCCCANA GTGGAAGCCT TTCCCTGATA AAAATCCTGG AAGTCGAAGC

SEQ ID NO:1307:   (Length of Sequence = 302 Nucleotides)
TAATAAATAG TATATGTAGT GAAGAAAAAG TTATAACAAG TATACATTAC ATTTAACACA CCTAGCACAT AGGACACCCT
CAACAAACAG CTACAGCTGC TGTAAATCAT GTGTATATAA TATAACATGC AAGCATATCT TCATGTATTG ATTAATTACT
ACTTCTTGGA AAAGGATCTG AGGAACATAT TTAATATATT TNATATGCCT GCTCATATGT NCATTTAGTG CTTATCAATT
ATATTTAGTG CTTTTCTATT AGCTTCATCC ATTTGATTAA GATAGCAACT TGTATTATTT AA

SEQ ID NO:1308:   (Length of Sequence = 285 Nucleotides)
CGCCGGCCAA CGTGGTCTTC CTCTACATGC TCTGCAGGGA TGTTATCTCC TCCGAGGTGG GCTCGGNTCA CGAGCTCCAG
GCCGTCCTGC TGACATGCCT GTACCTNTCC TACTCCTACA TGGGCAACGA GATCTCCTAC CCGCTCAAGC CCTTCCTGGT
GGAGAGCTGC AAGGAGGCCT TTTNGGACCN TTGCCTCTCT GTCATCAACC TCATGAGCTC AAAGATGCTG CAGATAAATG
CCGACCCACA CTACTTCACA CAGGTCTTCT CCGACCTGAA GAACG

SEQ ID NO:1309:   (Length of Sequence = 319 Nucleotides)
TTTCCAATTA TTATTTTGCC AATATCCTCA ACTCTTTTGC CCACTTTNAT CTTCCATTCA ACCCTCCCTG CAAAATCCTG
ATCTAAAAGC AACCCAAGTA TTTGCCTCTT CAACCTCCCA GCTGCTGAGT GGTTTTGGGA ATTACACAAC CACTAAGCTT
GGTGCAGATG CACTATGGCC TCAATAGAGT CCCCCAGTGC TGCCCACTTT CTCCTTCCAT ATTTCTCCAC AGCAGCTGGT
CAAAATACAT TTNTCCCCAA ATGTCTTACA CAACCCCCTT CTCTCTTATC ATCCTTANCT CACCCCCACC CCAGTTCTT

SEQ ID NO:1310:   (Length of Sequence = 356 Nucleotides)
TGAAGTTTTG CTCTTGTCGC CCAGTCTGGA GGGCAATGTG CGATTTCAGC TCACTGCAAC CTCTGCCTCC CGGGTTCCAG
CGATTCTCCT GCCTCAGTAT CCCAAGTAGC TGGGATAATA GGCACTTGCA ACCATGCCCA GCTAATTTTT GTAGTTTTAG
CAGAGACGGG GTTTCACCGT GTTGGTCAGG CTGGTCTTGA ATTCCTGACC TCGTGATCTG CCCGCCTCGG CCTCCCAAAA
TGCTGGGATC ACAGGCATGA GCCACCGCAC CTGGCCCTAT ATCCTGCTTC CTATCTCGTG GGTCATCGTT TATCGCTTTT
ATTTATTTCA ACCTGCAGTT GTTTGCAGAA CATCTG

320

SEQ ID NO:1311: (Length of Sequence = 331 Nucleotides)
AGCTCAGATT CATGTCTTGA GCCAAACAAG TGAATGTATC TNAGAAGACT CAGTACCACA TGGTACTGGG AGATCTTACT
CACTTCAGCT GGCGTTGCTC ATTAGTGAAT GTATGACAGC AGGATGTGAG GGGATGCCCA GGAGTCAGTG TTAGCATTGT
CATCTGAGAT CACTGCTATT AATATCATCC ATTAATTTAT TAGTGAGCTT CACTATATGC AGACTGGGAG ATAAGGAGAA
AATCTGTCAC ATTCTCTCTA GCTAATCAGA TCAGCTACCA ATTAATGAGA TTCTGAATGA AATATCAATA TGTGTTTTTC
TAATTTGGAC C

SEQ ID NO:1312: (Length of Sequence = 347 Nucleotides)
TTTTTTCCTT TATAAATTAC CCAGCTTCAG ATTTTTTNAT AGCAATGCAA AAATGGCCTA ATACACTTCA GAACCTGGAA
GATTAGCAGT GAGAAATAAA ATCAGTTAAG TTGATGACTT CTAGTATTTC ACTACATGGT TGTTTTGCCA AAATGAAGGC
AATATCAGTG TCTTCACACT TAAAAAGTAG TATATTGANC TTTGAGGTGA AAGAGCTGGG GTTTAAATTT GTNCTTTACC
AATTATTGAG ATAAGTGTCC TTGAGCAAGT TACTTGCTTT CNCTGATCTT TAGTTTTCTT ATTTGTGAAA TTGGAAATGG
TGGTGTTTCA GAGGGGGGTT GTATATA

SEQ ID NO:1313: (Length of Sequence = 336 Nucleotides)
GAATTCCTCT ATCAAAGTGT TCATAAAACC TGGAGCTGCA GCTGGCCCCC ATTAGGTAGT TTCTTGGTGA ACGTTTTCCA
AGGAAAACTT TTTTTTAACA ACTTCATAAA GCCAAGCACA AAAGGACATT GCAATGACTG GCTGAAAGAC ATGGGACTTT
TTGTCTTCGA CGACTAAAAC GTTAAATGGG GGCTTACTTT GTGCATTTAT GGAAGAAAAC TTGGAAGGCA TTAAAGGCTA
CATTTTGAGC CTTGCATGAT TTCATTCATT TATGCATGAA TTCATTTGTT CAACATTTAT TTAGTACCCA CTATATGCCA
GGCACTGTGC CAAATG

SEQ ID NO:1314: (Length of Sequence = 391 Nucleotides)
CCGGTTTAGA CCTCAGTCGG CGCTGTGAGG GCACTGTCCG CCCACCTGCT CGGCTGGCTG AGCTAGGTCA GTGGAGAGAA
GCTGGGGCCA CTCACACAGC ACAGCAGGCC ACAGTCTACA GAGTACGCCA GGTAGAGCGG TTAGAGTGGC AGCCGCTGGA
GAAAGGGTTA TAGAAACACA TCCCTGACTC TTTGGTTATG TCCCACGTCC TCTGTGTCTC CTTCCCCTTC CCTACTCTCC
TTCCTTTCTG CCTCCCTGTC TCCCTTGGAA GTCCCTGTTG TCAGTGCATT TNAGTGCATT GACGTGTCCT AAACACTGAT
CTNCACACAC CTTCT TTAT CTTCCACCTG ATAGGCAGGC CCCAGANCCC CTTTTTTCCT AGCTTTGTTC T

SEQ ID NO:1315: (Length of Sequence = 374 Nucleotides)
GAATTCCCTG GAACACTGGT GTTTACAGAG AGAGATACTT TGTGGAATGG AGCTTACATG ATGAATGAAA AAGAGACCGT
TAAAAAGTAC TAGCCGTTGT TTACAAATAA CTACCAGGTA AACAAAGAAA TCACTTTCTT TCCCCTTTCT AAGGATAAGG
GAGAATAAAA TAATCACCAA GAGGCATGGA GTTTGAAAAG TATATAACAG ATTTCTTTAT TATTATTTAC AATCAAGTTC
TGTTGGNCAA CATAATGAAA TAAATAAAAG ATGTGCCCTG GCCTGTGAAT TTCAACTCTC CTTGACTTAA GTTCTCTGAA
GGGCAAATTG GAAAGCGGTG ATCAGGCAGG GAAGAGAGGG CAGGTGGAGG CCAG

SEQ ID NO:1316: (Length of Sequence = 353 Nucleotides)
CTTGTTTACA GGTTTTGAAA GGTTTGTNAG ATTAGTATTT ACTTTTAATT TTTTGAGTAA TAGAATGCGT TTAGGTTCTA
AATTACTATG GAAATGGCAT AGTGAGGATT CTNCACAGAT ATTAGAGACC TTCAACAACA TAGTGAAAAT AGATTTGTCC
TTTCTTGTAA ATAGCTGAAC TATGAAAATT TGANCTGTCA CTGGAGGGGG CATTTGCNCT GAAGTTTGCC AAAGTAAAAA
TAACTTTNCT CTTTAGTAAG AAAAAGCTAT ATTTTNCAAT ACTGCCTGCC ACAGCAAACA AACAAAGTCT TGTTTGTGTT
TTAATATTGG CAAAGGAAAA ATTCTCTATA TAA

321

SEQ ID NO:1317: (Length of Sequence = 316 Nucleotides)
GAATTCCGAT TATAAGCATC AATATGCATA AAATGCTTAG AGATGGACCT GATATATAGC AAACACTCAG TAAATGTTAA
CTATTATTAT NACAGCACAG CAATTTATTT AAGATTACTG AGTGTTCAAA TGAAAAAAAA GACATATTAA CTTATATAGT
GCCATTTCTG ACATAAGAAA TACACAAATA GAGGTAGTTT CTGAAACAAA GATCAAAAAA ATCTATTGTA TGGTGTCTTG
TATCAATGTG GCTAAAATTT TCGAGCTAAG TTTTATNAAA GACAGATCAT ATTTCANGTA GGTGATTTTT GTATTG

SEQ ID NO:1318: (Length of Sequence = 300 Nucleotides)
GTGGGACTAC AGGTGCACGC TATCATACCC AACTAATTTT TGTATTTTTA GTAGACATGT GTTTCCCCAT CTTGGCAGGG
CTGGTCTGAA ACTCCTGACC TGAGGTGATC CACCTGCCTT GGCCTCGCAA AGTGCTGGGA TTACAGGTGT GAGCCAACAA
GCCTGGCCCA TTTATTTACT TTTTAATTTT CATTTTTCTT CATCATGTAG AATGGACAAT TTCAGGAAAC TGATAGAAAA
TACTGTCTAA CATCAAATTT TCAAAAAAGT TTCTCTGTAA CAGATAAGGC AGTCAATTTC

SEQ ID NO:1319: (Length of Sequence = 306 Nucleotides)
CAATAAGCTT TAAAAAGTTA GTGCCACATG ACCAGCATCG ACTGGCCTCA GACATCTGCA AGCACTCACC CAGGCCACAG
GGTCAGGTAG AGGGCTCCTG GGCCCACTGT AGCCCCTGCT GGGTCAGTGT AGCTGGAAGG CTACGGGNCC TTAGTGGGGA
GCCACAGCCT TTCCCACTAG GGGGCCTCTC ACTCTGACAT CTCCCTGTGG TGTTCGGACC AAGGGTGGGG AGGGAGACAC
GCTGGCCCTA AAGGGAGGTG GTAATNAGTG AAGATCTCCA GGGCCAGNCC ACAGGGCTCC GTCCAT

SEQ ID NO:1320: (Length of Sequence = 373 Nucleotides)
GGTCTTGATC TCCTGACCTC GTGATCCACC CGCCTGGGCC TCCCAAAGTG CTGGGATTAC AGGCGTGAGC ACCGTGCCTG
GCCGAGATAA TTATTTTTNA GTGACGATTT AGCAACCTGA AAACCTTGGG TCTTTGGGAT ATGACCTCAG TATCAACACA
GAATATTTGA ATGCTGGTTA ATATATTTNT TTTAAACTGT GATAGAATTG AAATCTTGTA GCCACATTTT GAAAGTTTAT
TCTTCATTAA CTAGTCTTTT CTCACCTGAT TTTCTACAAG AGAGAATTTT CCAAAAGGTT AGTTGTCGTT ACATTAAGAA
CTTGGGGTTT GNTTGACATG AAATGTTTCT ACACCAGCAG GTCTCAGATG AAT

SEQ ID NO:1321: (Length of Sequence = 366 Nucleotides)
GTTTGGCTAA TCATCCTATG ATTTTCCTAT AGCTTGAAAA CTTTTTATAT CTTAAATTTT TTNATAATTT TGAAGTATTA
TTGTTTGGGC TTTGTATATC CAGTGTATTT TCAATTAAAT TCCCCTAACT AAAGTAATTC AAAAGGAATA AAAGTGTAAT
GTGGGCTGGG CGTGGCGGCT CATGCCTGTA ATCCCAGCAC TTTGGGAGGC CCAGGCGGGC AGATCACCTG AGGGCAGGAG
TTGGAGACCA GCCTGGCCAA CATGGTGAAA CCCTGTCTCT ACTAAAANTA CAAAATTAGC CGGGTGTGGT GGCACATGCC
TATAATCCCA GCTATTTGGG AGGCTGAGTC AGGGAGAATC TCTTGA

SEQ ID NO:1322: (Length of Sequence = 362 Nucleotides)
AGGGAGGGTA AAACAAATCC CCCTCCAATG CTTTGTAGAA GGGGATTAGA ATCACTGTGG AATTCGGTAT TGGCTAATAA
AGTATAAACG CTAAAGATCA ATGCCTGAGT GCACAGTTGT CCTTCAAGCC ATTGTACTTC TGCTTTCCAA GANTAGANGA
CTACTTTTTA ACCAAGANTT AAAAATAANC TCATAATTTA AACACCTCTT TCATGCCAAA TGGAAATCTT AGTGTTGAAT
AATCAGGCTC ACCTGAATAC AAAGTTGTCC TGAAAATGCT GACAATCACA AAAAAGGTTC TAGAAGCTTT TTCAAAAAAC
AAGTTCAGAT GGTTCCCACT GAGTTACTAT TTGAGGTTAA AG

SEQ ID NO:1323: (Length of Sequence = 244 Nucleotides)

322

CGACCTCAGT GTAAATCACA AAACGGGAAG AGCTGATATT GGCAAAATAA TTACATGGCT CATTTCCTTG CATGTCAAAA
TAGGATTTGA TTGGTTGTAA AAGATGACAA ATACCTTTNC GGTTTCAATG TTCTTAAGTG GGAAGTCACT TATTACAGAC
CTNATTGGGA GTAAACAAAG CTGTTAGACC TTTCATTATC AGTCCNNTTA ATCCCTTCAA TAATCCCCCT AAATCAGTGA
GGCG

SEQ ID NO:1324: (Length of Sequence = 279 Nucleotides)
GATCCATGCC ACAGTGACCT CTGTNACCCT GCACAGCACA GAGGGGAAAG CCCTGTACCA GGTGGCGTAT GAGAATGAGG
TAGGCAACAG CTCTGACTTC TATGACATCG TGGTCATCGC CACCCCCCTG CACCTGGACA ACAGCAGCAG CAACTTAACC
TTTGCAGGCT TCCACCCGCC CATTGATGAC GTGCAGGGCT CTTTCCAGCC CACCGTCGTC TCCTTGGTCC ACGGNTACCT
CAANTCGTCC TAATTCGGTT TCCCAGACCC TAAGCTTTT

SEQ ID NO:1325: (Length of Sequence = 338 Nucleotides)
TCAGTTATTT GTGTGTGTGT GTGTGTGTGT GTGTGTNCAT CTGCAAACCC TGCACTTCAT TATCCAAAAA TTATTTGATA
TTTTATAATC AGAGAAAATG CTATTTTTAA ACCCTACCAC TGCTGACCAA ACAACAATCA CAACAGCATA ACACTAAATA
CTGTTCAACA AATCTATTTT AGTGTAGTAA TTAAATAATT CCTAAAATTA TAGACATCCC TAATATTCTT TCCNTTAGTG
GTTCCTCAGA GTGCAATCTG TGGAGCAACT ACCTTGAAGA AATTTGGGGG AATGAGACCN TGGGAACCCT AAATGTTTAG
NATGGTGCTC TNGGGGAC

SEQ ID NO:1326: (Length of Sequence = 393 Nucleotides)
AACTTTGGAG GGGACACCAT CACTCAAACC ATAGCTGTAA ATCTATTCCT TGAGTCCAGA TCACAAATTA CCAAATGAAC
ACGTTCTCCA TTTTTAGTAC TTTTTTACCT GTAACCCTCT GTCTACCTAA GATGAATATT TATTCATTGA ATGAATCATT
TAATTTTGGT GCCCCAAAAT TCTCAGTGAA ACAATTTCTG GATACCTCTC CATCACTAAG ATAATCACTA TAGCAGTGTC
ATATTCTTCA ACTTAGNACA AATCTAAAGG CTCCATTTAT CCCTACTAGA AGTGTTCTGT TGTCTTTTTC ACTCTCAAAA
TATCCTCCAT GCGCNAACCA AACACTAANG GGNACCACCA TATCTTGCTC AATGGAGGCN AAATCACTTT TTA

SEQ ID NO:1327: (Length of Sequence = 381 Nucleotides)
CTTTGGAGAA TTAATTCAGC AGTTGGTAAA ATCATTCTAT AATAATGGGT ACCATTCTGC TCTGTCCCAC ATTTTTATGA
AGTCTCTTTA AATTTAAAAA GGCAATGTGC TTTGTGGTTC TTGAGCAACT TAAATACGTT GCTCTGAATA GTTATTGTGA
TGAGGTAATT TGTAACAACT TTTAGGATCA ATGCTAATTT NCTTAAATGT TTCTGTAGTT TCCCCTTTAT TATAAAGTAT
ATTAGGCTGG ACTCTTGGCT GTAAGTGGCA GAAAACTCAA CTCAGATTAG TTAAGAAACA AAAGGGTGTT GGTGACAGTG
GTGGCTTTCA GACTATTGCT GCAGGCCCAC CTGCCATCCT CTTACACCCT CAACATACCC T

SEQ ID NO:1328: (Length of Sequence = 289 Nucleotides)
AGAAGAAAAT TCTTAAGCAG AGTACTTAAG TACAAAATTG AGTGACTGAA AGATGCTTAA TCTAGGGAAA TTAAATGAGA
AAAATACATG GTGTGTGTNT TGGAGGGGGA GCTGGAATTG GAATGGGCTG GAGTGATGAA AAAAAGCCAA CAGATATAGT
CTTCTGTTTT GTAATATAGG CTCAATACTA AATTATGTAG GACTAGATAA TCTAGGTCCT AATGTCTCCT TTTTGCTGGC
AACCTGGGGG CCAATTACAC TAGAGGGTTG GTAGAAAAAA GAGGAATAT

SEQ ID NO:1329: (Length of Sequence = 364 Nucleotides)
TTGTATATTT GGGATTGTCA ATAATCTAGG CCACGTGGAA GATAACAGGC TATTTTGGAT ATTTNCTAAT TGCNATGCTT
ATATTTCTGT GTAAATGCCT ATACAAATGT TTGCTTGGTG ACATATGGAA AACTTAAGGN CTTTTATGAA AAGGCGACAA
TGGGGACCTC CAAAGCGCCA AAGTTTCTGC TAGGCATAGT GTTATTTTTA GATTACATTA AAATGGCTAT TTAGACCCAT

CTAGCTGAGA CTATTCCAAA ACAAACTTTT TATCANATTG TNATCATAAT CAACTTTCTA CAGGCTAATG ACTTTATAGN
TTTACTNCTA GTGTATATCT ACTAGCACAA TTGGACCCAG TTCC

SEQ ID NO:1330: (Length of Sequence = 221 Nucleotides)

CAATATTTAA ACAAAATGCA AAACTGAACG TTACCTCAAA ATGAAACAGT GTGTGTACTG GCTGTTAGAA GTTGATGGCG
GTCTACTGTT TGATATTCAC TGCCATCTTC CTCTGCCCCA CTCTACCTCA ACTCGGGACC GCCTCACCTA ATGGTGGGCT
TTGCCGCTTT ATGCCNTGTA GAGNAGACAC TGGGTAACCA CAGCAAATCA ACACGGGNTC C

SEQ ID NO:1331: (Length of Sequence = 279 Nucleotides)

AATAGAGATA ATGGTCAACT CTTGAGAAGA ACCAAATGCT GGTGCCATCT TGGAAGTGCT ACATCACCTC CTCCTCTTAC
TTCCTTGAAC AGCAATATTT CTGGATTTCT TCTGCAAGCC CCAGGCAGTG CAGGATGCGT TNTTTTCAG CAGCCAGTTC
CTTCTCAGAG AACTGGCCCA AGAGTTTCTG GACAAATATA TTTTGATCTT TCAGAAATAT GTTCTNATTC ACTCCTACAT
TTGGCACATT NTCCAAGGGC CCAGACTTGA AATTGGAGG

SEQ ID NO:1332: (Length of Sequence = 290 Nucleotides)

GGACGAGGAG ATGTCTTTGG TGGACTTGGG AAAGAGGTTG CTAGAAGCAG CAAGAAAAGG CCAAGATGAT GAAGTGAGAA
CGTTGATGGC AAATGGCGCC CCATTCACCA CAGACTGGCT TGGAACATCA CCCCTCCACC TTGCAGCTCA ATATGGTCAT
TATTCCACAG CAGAAGTACT CCTTCGAGCA GGTGTTAGCA GGGATGCCCG GACTAAAGTA GACAGGACCC CCTTGCACAT
GGCTGCAGCC GATGGACATG CGCACATCGT GGGAACTGCT TNTTCGGAAT

SEQ ID NO:1333: (Length of Sequence = 201 Nucleotides)

CGCCCAGCTA ATTTTTGTAT TTTNAGTAGA GACGGGGTTT CATCATTTNA GTCAGGCTGG TCTCAGACTG CTGACCTCAT
GATCCACACG CCTTGGCCTC CCAAAGTACT GGGATTACAG GCATGAACCA CCACGCCCAT CTGATTTCCC GTTTTCTGCA
GGGTAAAGNC TCAGGGCCGG CCCATTGNTT TCAGGANTTT T

SEQ ID NO:1334: (Length of Sequence = 267 Nucleotides)

NNATAACTTT TTGTTGAAAT TTAGAAAATG TGGATCTTTT ATACTTGCTT TCCCTTTTCT TCTGCCATCT TTATCTTCTG
CTGAAGGAGA CAAACAATAT TTTAGGTGAC ATCTATCACT TTATGTAGGA CCTGCAAACA CTCATGTTGT CTTCGGACAG
ACAAATGGAG AATGTAAATC TGTTACACTG TGACAGGATA TAATTNTGGA TTGCATAGGN TTNCAACAAA GTGTCTGTGT
GATGANTAAA TGGTAAAATA TATTTAT

SEQ ID NO:1335: (Length of Sequence = 279 Nucleotides)

GGNTCTTGTT AGAATGCAGA TTCTAATTAA AAATGTGTAG GACAGGGCCT GAGACTCGGT ATTTCTAACA AGTTCCCAAG
TGATACTAAT GCTACTGCTT CACAGATCAC ACTTTAAATA GTAAGGTTCT TGAGAGAGAT TAGTCTCAAG AGAAAAGAGA
CAAAAATCTC CAGAGCAGGA AGACCAAGAA AAAAAAATGG AAAGTAGCCA GTCGATTATC AACTAGATGG CCTTAGTGAG
ATTCTGCACA ATATTTCATC ATACAAAACT GNTTTCCCA

SEQ ID NO:1336: (Length of Sequence = 398 Nucleotides)

TTTTTTAAGC ACTCTTGTGT GGACTGGTCA AAGATGTTCC TAAAACAACA TTGCTGTCAC CAAGCCTCCC ATGANTTAGG
CAGGCTTCTC CCATGTGGAT ATCTGCTTCT GCATAGTTNA TGAAGAGGAA GCATCCTCAG TCAANACTAC CAGCTNAGGA
ACCCTTAGGA AACCCCGCTG GTACCTGGCC TGTNTTTTGT AAGTATACAT CAGGCCAGGG GGCTGCTTGC CAAGCAACAT
CATTGACTGC ATACTGTTTA GTGCATGCAT TACCAGGGCT CAAACATCCA AGTGATGCTA CCTGAATAAG TCGAGGAATT

324

TTTGATAATA AACATAAGCC AAATCCAAAA AAATGTTCTG GGTTTTTCCA TCATTTCCAC TCATTAGTNC CAGGAAAA

SEQ ID NO:1337:   (Length of Sequence = 272 Nucleotides)
CTTTCCTCAG TATCACAGGT ACCTGTTTTN CTGGAATTTA TTTAAAATGT CACCTTGTAG TGTTCCCTCT CTAGGGCTGT
TTGTTTCATT TCCCTCTGAA TGAATGCTGC CACACGGTCA TATGTGAGCC AAGTTTACAA GAATGGAGTT GCTGCTGAAG
AGATCTCTCA TTCATCTCCC CCAGTGCCTG TCCTTCACAA TCATAACGTT ACCCTTGCTT GACAAATATA CTGTATGGCA
AGTCATAAAG GTCTTNGAAC AGGACTTGAC CC

SEQ ID NO:1338:   (Length of Sequence = 212 Nucleotides)
TAGTCCCCTT TATATAATAT AATCAAGTTC CTCCATCTGG GCATTCAGTT AAATTCTACA ACATTGCCAA AATCTGATTT
GACTCTACAG AATATGTATA GTTTATTTAA CCAGATAGTA ATTTAAAATT TTACAACATG CGTATTTCAT GTAATATTAA
TAACAGTAAT TTAAATTAAT ATTCAATACA TACCGTTTGA ATTTTTATAA GG

SEQ ID NO:1339:   (Length of Sequence = 280 Nucleotides)
TTTTTAGGAA TAACAAATGT TTATTCAGAA ATGGATAAGT AATACATAAT CACTCTTCAT CTCTTAATGC CCCTTCCTCT
CCTTCTGCAC AGGAGACACA GATGGGTAAC ATAGAGGCAT GGGAAGTGGA GGAGGACACA GGACTAGCCC ACCACCTTCT
CCTCCCGGTC TCCCAAGATG ACTGCTTATA GAGTGGNGGA GGCAAACAGG TCCCCTCAAT GTACCAGNTG GTCACCTATA
GCACCAGCTC CAGATGGCCA CGTGGCTGCA GCTGTACTCA

SEQ ID NO:1340:   (Length of Sequence = 324 Nucleotides)
CTGTTCCACC TCAGATCATC AGGCATTAGA TTCTCATAAG GAGTGTGCAA CCTAGATCCC TCCCATGTGC TGTTCATAGC
AGGATTTGCA CTCCTATAAG AATCTAATGC CACTGCAGAT CTGGCAGGAG GCGGAGCTGA TGGTGGGAAG GTGGTATTGC
TCGC CTC GCCTACTGCT CACCTCCTGC TGTGGGGTCC AGTTCCCACC ACAGACCACT GGTCTNTGAC TCAGGGACCA
CTAC   CT AACANGGNTG AGGAAAACAA CTGGGTTCAT CACACAATTA TTTTAAAGTT CAGGTTTTNC AAATAACTTA
TCCA

SEQ ID NO:1341:   (Length of Sequence = 376 Nucleotides)
CTAATCAAGG GTACAAGATG TCTAANTCAA AGGCCCAGCT CTGCCTACAA GTCAAATATC TAGGCCTAAT CTTGGCCAGA
GGAACCAGGG CCCTCAGCAA GGAATGANTA CAGCCTATAC TGGCTTATCC TCGCCCTAAG ACATTAAAAC AGTTGTGGGG
GTTCCTTGGA ATCACTGGCT TTTGCCGACT ATGGNTCCCC AGATACAGCG AGATACACTC TAAGGAGACC CAGAGGGCAA
ATACTCATCT AGTAGAATGG AGACCCAGAG GGCAAATACT CATCTAGTAG AATGGGGACC AGAGGCAGAA ACAGCCTTTC
AAAACCTTTA AAGCAGGCCC TTCTTNCAAG CTCCAGCCTT TAAGCCTTNC CACAGG

SEQ ID NO:1342:   (Length of Sequence = 335 Nucleotides)
ACCCTTCCCC ACTCCCTGGT CCCCGGGAGC AGCTCCTTCT GCCCGANTNA CTCACAGTGC AGGGAAAGGA GGCAGGGAAA
AGACCAGGAT TCTGTGAGTT CTGAGGTTGC CACACACAAA GAAGCTGTGG TTTCTCTGCC TCGGCCACTG ATGAGACTAA
AACTGGCTTC CCCTTGGAGA CGGCAGATTT CAGGCTGATC CCTGCTTAAG CCCTCTCATC CCCACGCTGG TCCTGGTATT
GATACAAGAC CCAGCTGGTG ACAAAGCCTC CAATCCTGGG GGTCCACGGA GCCTGGGGCT GANATTTCCA GGAACTANNC
GCCAGTGGGC GCCCA

SEQ ID NO:1343:   (Length of Sequence = 379 Nucleotides)

GAACCCAGGA GGCGGAGGTT GTAGTGAGCC AAGATCGTGC CATTGCACTC CAGCCTCGGC AACAAGAGCG AAACTCCATC
TTAAGAAAAA AAGAAGGGTG TGATAGTTAA ATTTATGCAT CAACTTGGCT AGGCAATGGT GTCCAGATAG TTGGTCAAAC
ATTATTCTAG ATGTTTCTGT GGAGGTTATT TTTTAGATGA GATTAGCCTT GTAAACTGGT GAAAATTGGG TGAAGGAGAT
TACCCTGCAT AGTGTGGTGG GTCTCATTTA ATCAGCTGGA GGCCTCAATA GGGAAAAAGA CTCACCCTNC CCTGGAGCAA
GAAGGAAATT CTTGCCCAGC AGAACTTCTT NGGGCAGCAG AATGCAACCA TAAACTCTT

SEQ ID NO:1344:   (Length of Sequence = 400 Nucleotides)
GACGGATGGG ATCGGGGCTG TGCTCTGCAG GTCCTCCCCA GAGATGTTGT CATACTGCGA GGGATGCCGC TCGTAGGACA
CCCTGCAGCC AGAGCCGTCC GCCGTCTGGN AGGCTGCGCT CCTGCGCTTC TTCTCGGGGA GAGCAGGTGG CGTATCTNTN
TGCTGCCCTG GGGCCAGAGG TCCGTNTGGC TGGGGATGGC CGCCAAGAGG CAGCTGGAAA GGAGGGCCAA GAAATGGAGA
CCCAGACTCC CCCAAAGACT CTGGCAACGG GCTAAGGTTC CAGGGCCGTC TGCTGAGGTA TCTGGTCTGC GTTAGAGAGG
TCTTNCTGGA GGAATTCATA GTCGGGATCA TAGCAGATCT TGTCCCCTTT CTATACCATC TGTCCTATTT GGAGATNGCT

SEQ ID NO:1345:   (Length of Sequence = 347 Nucleotides)
CCTCTTCCCC CAAGGAGCTT GCAATTTTAG GAACTAATCC AGTTTGAGGG CTGAATTTAA GTTAAAATCA ATTACTGCCC
TATGTACTCC TTTTAAAACA ACATTAGGTC AAGACCCTTT CAGTGCTAAA TAAACTGATT TGTCATTATC ATACATTCAA
GTTTTATAAA TGTGTTTTTC CTCACTTCAC TGAAATATCA GAATCCAGCT CAAAAACAGA ATCAAGAGG AGACTTTTAA
GCTTATTCAA TAAAAACTAT GGTACGGTAA TATTCAAAAT AGTGGAAATC ATTATATTAT CTAAAATTCT CAGGAAACTG
CTTTAACCAT GGATTAAATA ATTTACC

SEQ ID NO:1346:   (Length of Sequence = 287 Nucleotides)
CAAGTCAATA CCCATAATTA AGTCAAGTTG CCAGCCTTAA TTATATTTNT NTCTCGCTCG TTCACTCTCT CTCTCCTTCC
CTCCTTCCCT CTCTGCCCCA CCCCCGTGTA CATTATATAC CAATTCATTG GAGATATATA TATGTNTGTN TNTGNGTNTG
TGTGTGTNNC TGTGTGTGTG TGTGTGTTAA AGAAGCAGGA TGTCTTACAC AGATGTTTCA TATATTGAGG NATTACAGAG
TAATTACAGG GAAAGGTATT ACACTGTTCT TCAACACCCT AGGCAGT

SEQ ID NO:1347:   (Length of Sequence = 295 Nucleotides)
ATTAAACAAC TTTTTTAAAC TTTTTGTGCA CAGGACAGAA AACTGCCTGT ACATGCTATG TCCACTTTTG GAACACAGAT
TTTTAACAAT TATGAATGCA CAAAATCTTA CATATCATGC AACTCTATGC CAAGAACCCA ACTTTCTTCC ATGCAACAGA
TATGAAGATC TAAATGGAAA CCTAGCTAAG TCTTAAACAC TTTTCCAGTA GCAAGTATAA TATATGTTGT TGAGGGAAAA
CCAGTCTTAA CAATTNCTTG TACACAATAT TCATGTGCCA AATACAATGN CAGGN

SEQ ID NO:1348:   (Length of Sequence = 332 Nucleotides)
AGTCCCTGCT ATGTGGATAT TTGGTAGCAA TGACTGATGT GGAAACTACA TATGCAGATT TTATTGCTTC AGGAAGAACA
GGTAGAAGAA ATGCAATACA TGATATCCTG GTTTCCTCTG CAAGTGGCAA CAGCAATGAA TTAGCCTTGA AATTAGCAGG
TCTTGATATC AACAAGACAG AAGGTGAAGA AGATGCACAA CGAANTTCTA CAGAACAAAG TGGNGGAAGC CCAGGGAGAA
GCAGCAAAAT CTGAAAGCTT AACACCCCAC TTTGACCCTC GGCCACACCT GAAAATGTCT CAAATCTCCA GGGNGTATCT
GGGAATGCAT TT

SEQ ID NO:1349:   (Length of Sequence = 296 Nucleotides)
GCCCCAAAAA CAATGACACA AAATTCATTT GGTTAATTCA TGTAAAGGAA AAAACAGCAA CACCACCACA CAAACAGGAA
AGTGGGAGTA TGATTAGGAG GGGTGAGATG AAAACTATTT TACAGTAACA TTTCCACCAA AAGACTGTCC TAAGAACACG

326

CTGTCAATAC AGTTCACAGG GAAAAAGCAA ATGTGGTATT TTTTTGTATT TTTTAAAAGC TCCCTGGGTC CCAGGTGTTT
TGCAGTTTTC AAGGNCTTAT CTGCTAAAGG AATGCCCTTT TAGGGTCACA GCAGGT

SEQ ID NO:1350:   (Length of Sequence = 317 Nucleotides)
CTGTTGCCCA GGCTAGAATG CAATGNCGTG ATCTTGGCTC TCACTGCAAC CTCCACCTCC CAGGTTCAAG TGATTCTCCT
GCCTCANTCT CCCTAGTAGC TGGGATTACA GGTGTTCACC ACCACGCCAG GCTAATTTTT GTATTTTTAG TAGAGAAGGG
GTTTCACCAT GTTGGCCAAC CTCGAACTCC CAACCTCAGG TGATCCACCT GCCTCAGCCT CCCAAAGTGC TGGGATTACA
GGCATGAGCC ACTGTGCCTG GCCAATAAA CTATATTTTN TCAAGCCAAA GTAGGACAAG CACAGTTTTT AAAAGGG

SEQ ID NO:1351:   (Length of Sequence = 349 Nucleotides)
CGGATGGGTG GGATGAGACT TCAGCTTTAT TGGAAATGTT TTATTTCCTT ATCTAAAAAA ATACTAGAAA GAAATACAAC
AAAATGTTAA CAGTTGTTAA TGTCGGCCTC TGTAAATATA GATATTGTGT TACTTTAGTC TTTTTTTTAA TCTCAACTAA
ATTAAAAAAG GAATTTTAGT CTTTTTTTAT CTCAACTAAA TTAAAAAAGG AATTTTAAAA CCCTAGTGTT ACATGCAAGT
GAGTCCAATA ATGGCAAAAT AATAATGAGG NTACATAGGA AGGGTGACCT AAATTTTAAT GGGTGAATAC TGGGTCCCCG
GTACAAGTTT GANAAATTTT GAATTTCCG

SEQ ID NO:1352:   (Length of Sequence = 304 Nucleotides)
TTTTTATACT ATTTAAAAGA ATCCTTAAAT GATGGGTATT CTCTAAAGCA TGCGGGGCTT AAAACCTAGA TGATGGATTG
ATAGGTGCAG CAAACCACCG TGGCACATAT ATACCTATGT AACAAACCTG CACATTCAGC ACATGTATCC CAAGACTTAA
AGTAAAAGTA AAAATTAAAA AAGATGGGTA TTCTATATTT ATCTTTCATG TTACATTTTT CTTTGTGGGG TTTCTAAATA
AAACTTGTAA CATGAATGTT TTATTCTCAT TCTGTATTTT AAAAAGAAGC TGAGTAACAA AAGG

SEQ ID NO:1353:   (Length of Sequence = 307 Nucleotides)
CTTAGTCTGA CATTAGGTTA TGAGAAGTAC AAAAGATCCA CAAGTACAAA AAAATCTGTA TAGCTTTGCG GTAGTTGAAA
AAAATGCAAG AGAACAAAAA AATTTTTTGA GTAATATTCA TCTCTGCAGA TCTGAGTGAC AGTCCGCTTG AAACACCGCT
GTAAAAGTGG TAAAAAATGA TTTCATTGTG ATTATGTTAA AATTTTTGAT GTCTCTNTTA CTTGTTTTAG GGGAATCTGG
TCTTCCTGNC ATTTATACCT GGATANGTNC CTTTCCCTGT AATTTTTNCT GAAAGGCTCC AATTTCC

SEQ ID NO:1354:   (Length of Sequence = 407 Nucleotides)
GTGAAGTTAA GCAGCAAGGG CTGAGAACCG CTGCTCCAGA GAGGCCAGGA GGTCTGGTCA GAGGCTGGGG CCCCAGCCCC
CAGGCACCTC TCTGTGTCAG TTTCCCTGGA GAAGTCATGA GTTTGAAGAG TAGGCAGAGG CCAGGTGTCA TCACTGAGTC
ACTCATCAAT GGCCAATGAG AGTNCAAAGG GTAGCTCTGA GCACAGGATG TNTAGCAAGA CTCCTGGGTT CAGCTCCCAG
TCCCACCANT GCCAAGTGGG GGATCCTTAG CAAGGTACTT ACCTTTTTNN TGCCTCTGTT TCTACGGCTG CAAAATGGGC
ACAATAATGT CAGATTCATG AGGGATAATG AGGACTAAAA TTAGGNTAAT TNCCTATAAG CTGCTTCTAA ACGTATTTAC
TTATAAA

SEQ ID NO:1355:   (Length of Sequence = 355 Nucleotides)
ATTACTATTT GCCTCTATAG GAGGTTTCAT TAGGCATCTN CTTCATTATG AGTGCAATAT AATCAAACAC TTATCAGTAC
AAGGCAGAGA GACCGGGACT AGCTGCCTAC ACATCCTCAA TGAGCTTTAG GAAATTGAA GGAAACATGG ACTGAAAATC
TTCTGGTGGC AGGTACTCTC ATGTGTTGTC CTATCTGATG CTCTCAACAA CCTCTAGGGG TAGATATTGT GACCCTCATC

TTGCAGAAGC CTTGGCTCAA GTATATGCTC AGAATCACAG AGCTGGAAGA TAAACTTGGG TCTCTCTAGT GCCAGAGNCC
ATGNCCTCTG ATCTCTCAAG GGCAGAGGTA TTACC

SEQ ID NO:1356: (Length of Sequence = 406 Nucleotides)
TTTTTTTTAG TTATTTCACT CTCTCTGTTA AATTTATCTG ATAGGATTCT GCAGAGAACA AAATTCAACA GGGCCCTGTG
GAGCAAGGAG CCCCTTTTCC CTATCTCCTT CCTCTAAGAG CTACACCCAG ACCAGCTGGT TATCAGCGGA GGCCCCGCTG
CTCCTCATGA GAACGCTGGT GGAAGACGAA GGTGATGGCA GTGGAGGCAG CATCCCAGGC AGCCTGGAGT ACCTCATCCC
GGAGCCCCCA CTTATCAGTG CAGTGGTTCC ACCCTGCCAG GGTCTNAAGT GCAGTCAGAA CCATCAGGGG GTNGCCGGAT
CTGACGGCTG TTNACACAAC GTCGGCAGTG CAAACCTAGG GACAGAAGGC ACANCTNAAG TCACTNCAGA TCCCATCTTC
CTACTG

SEQ ID NO:1357: (Length of Sequence = 231 Nucleotides)
TTTCACAAAG AATTTATGAT TGCTTCACCA GGTCACTAGT GAGCTAAAGT CAAGGAATGA CTACAATCTT GTAGCATTTT
AAAGTGATTA GAATTTGAGA AACTTTTACT ACATTATGTG TTACTATCAT AAGAACACTC CTTTGGGGGC ATTTGAATAA
TAAAAAGGNC TACATTCTTT GCACCANGTG NTCATTTTCA CCCACATTCC AGTATTTTNC TCTAACTTGG G

SEQ ID NO:1358: (Length of Sequence = 302 Nucleotides)
CACAACTAAT TTGTAAGCCC CTTGAGCGCA GGAACTGGTT TTTTAAAGAA TGATGTATTC TTCACAGTGC TTTCCCTTTC
TGTTACCCAG GGAGCACATG GCAATATAAG GGCTCCTGGG ATTGANTCTT AAGTACAGAG AAAACCTAAG AATNCTTTTA
GATAGACAGA TAAGAGACCA CNAGAGAAGA GCAGATTCTA AGGTATNTGT GAGAAACGTT ATGTAATGAA AAGATAATTG
ATGACACACA CTTCCAGAGN GTGCTGGCGA GATTTGATTC AAAAGCACAC GGCTAGGGCA CT

SEQ ID NO:1359: (Length of Sequence = 356 Nucleotides)
TAATGATGAG CCTCTGGGTG CAGGGAGAGG ATAGGACTTG ATGCTTTCCA GGGGAAATAT TTAAAATTTC AGTACTAAGT
TAAGTCTGTA TCATTTTACT TTTTTTATAG TTTCTTATTT TATGTTGTAT GAGATGAAAA GCTTGCACAT AAAAGATGAT
AAGAAATTAG AATTCATCGT TTCTGTTGTA CCAAGAAGAA CCTTAGTGAT CTCTAAAAGA ATTGTTGTTA AAATATGGAT
TCTNCTTTCC TTCTAGTACT CCCCTAGCAT GACANTGAGC GTGTGATCCA TTACCAAGTC TCCTCATGAA AACCACAGTG
AGTCAGCCCT TCACAGAACT ACTACGGGAG GAAATT

SEQ ID NO:1360: (Length of Sequence = 366 Nucleotides)
AAAATTTAAT TCAACTGACC CATCCCACCG GGAAATGCCA CTAGGAAGGT GTAGCCTGCA GTTTTACCTA ATAAGCACAA
CTGGAGGGGA ATAGAAACAC AGAATTGTGA GGGAATCGCA AGGCATGCTG CTCAGAGCAT GCCTAGCCCT GCACTGAAAG
CTATGAGATA CTGGTTCTGA GGCATGGCTG TGCTTGCTGG TGGGAGCGGG CATCCTCCCT TGGCCTCCCT GGGACACCTC
CTGTGCTCCC TGCACTGCAC TCCACGTGCC TGGGGTGTCT ACACAACTNG CTGCAGCTTC ACTAAAGAAC AGGTGGCACT
NCAGCTTCTC CGGGTCCTGC TGAGCACAGG GNCCCGCCAN CCTTGA

SEQ ID NO:1361: (Length of Sequence = 347 Nucleotides)
CCTCCTACTG TCTTGTCTGT GGGACAGTTG CCTCCCCCTC ATCTCCAGTG ACTCAGCCTA CACAAGGGAG GACCAACAGG
NTCTAGTTTT TCCACGTGAT GGAGTTCCAA GCTTTTTTTT TTGATTTGTT TTGTTTCGCA AAATAAAAAC AATACACATT
CCAAGAGAAA TGAATGCATC TNTTGACACG TCTCTATTTC TCATTTACAN ATCTACACAC GNCCCTTCAG TCGCTGCTCT
TGACACGGCC CNGTGTGGAC GGGTCAGGCC CGAGGCCCCT CGGGAGCAGA CCTGTAGCTC TCTGGGGGAT CAGGGCTTCC
ATTAGGGAGA AAGTATTAGC AGTTTCT

328

SEQ ID NO:1362: (Length of Sequence = 358 Nucleotides)
CCATTCATTC ATTCATTCAA CAATATTCAT TCAACAAATG AAGCAAAGGA GCACACAGCC AAGTGATGGA GCAAAATCAC
AAATTAAAAG GTAATTCAGG CCAGGTGAGG TGGCTCATGC CTGTAATCCC AGCACTTTGG GAGGCCGAGG CAGGTGGACC
AGCTGAGGCC AGGAGTTTNA GACCAGCCTG GCCAACATGA TGCAACCCCG TNTNTACTGA AAATACAAAA ACAAACAAAC
AACATAAAAA AATTAGCCAG GTATNGTTTG CAGGCGNCTG TAATTNCAGC TTAGTCAGGA GGCTTTGGCA NGGGCTTCAG
TTAGCCAAGA TCGGACCCTT NCACTTTCAG CCTGGGTA

SEQ ID NO:1363: (Length of Sequence = 312 Nucleotides)
TATTTAAATA ACGTGCAATT TCATAAATCA GCACATTTAC TAGATAGGTA GGATACTTTT NATCCATTTG TGTGTTAAAA
AATTAGCGCA TGTTTCTCTT TATGCCCACT TGTATTAGCA GAATAGTGTT TTCGGATTCC CTGAATGGNT CTGTATTGAG
TCTGTATAGA CCCCGAAGGA AAAGGAGGAA TTCGCCGTGC CCGAGAATAG CTCCGTCCAG CAGTTTANGG NAGAAATCTC
TAAACGTTTT AAATCACATA CTGACCAACT TGTGTTGATA TTTGCTGGAA AAATTTTGAA AGNTCAAGAT AC

SEQ ID NO:1364: (Length of Sequence = 345 Nucleotides)
CTGACAGATT TACAGATGCT GACCTATTGA AAAATACCAC AGCCAGAATG GGCTAAACAG GTATATAGTT AATACAACCA
CCACCATCCT TTACTTTTAA CATAGCTCTT AGTAGGAATT TCATAAAANT GGACATCACA GCTAAAATGC ATTATTAATT
CTCCTATCTG CTGACAATAA AAAAGCAGCA AACTCA.TGA TTTCTATTTA AATGCACTAG ATGGGAATAT CATGTTCTAG
GGGTGTTTGC CTTCAAACCA AACCCACAGC AACACACACA AGCAATTTCG GTATCCACCA TTTTAAATTC ACAATCTGAG
NCTAAATGAA TGGCTATTTA TATTT

SEQ ID NO:1365: (Length of Sequence = 255 Nucleotides)
CTCCAGAAAG CCATTGATCT GGTGACGAAA GCCACAGAGG AGGACAAAGC CAAGANCTAC GAGGAGGCGC TGCGGCTGTA
CCAGCATGCG GTGGAGTACT TCCTCCACGC TATCAAGTAT GAGGCCCACA GCGACAAGGC CAAGGAGAGC ATTCGAGCCA
AGTGCGTGCA GTACCTAGAC CGGGCCGAGA AGCTGAAGGA TTATTTACGA AGCAAAGAGA AACACGGCAA GAAGCCAGTC
AAAGAGAACC AGAGT

SEQ ID NO:1366: (Length of Sequence = 322 Nucleotides)
AAAAAAAAAA TTCCAAAGAA ACAGAGTAAT TTTCCTCCTT GCCTCAGCCC TAAGTCATCT CCCAGACAAA AAAGCAATCA
TCATTGTCAA ATTTAAAAGG GAAAAGGAAA GACTTTTATT TGANTGAAAA GATTTTTTTC AGTGTGATAG AGAGGGAAGA
CTGAAATAAA CAGAATTTAC AACCTTCGCA CCTTTGCACC TTCCTCTTCT AGCAGTATGG CAAACTAAAT AACTTGCACT
GAAAACGGGT TAAAAAGCTG TATACTTTTT TAAAAAATAT ATTTNGNTTA TGTCATTGAT CTGCACAGTT TTGAATACAA
AA

SEQ ID NO:1367: (Length of Sequence = 349 Nucleotides)
GAAAACAAGG TCAACATCAC TCATCATTAG AGAAATGCAA ATCAAAACCA TAGTGAAATA CCATCTCACA CCAGTCAGAA
TGGCTGCTAC TAGAAATAAC ATGCTGGTGA GGCTGCAGAG AGAAAGGAAT GTTTATACAC TGTTAATGGG AGTNTAATTA
GTTCAACCAT TGTGGTAGAC AGTGTGAAAA TTCCTCAAAG ACCTAGAGAC AGAAATACCA TTTGACTGAG CAATCTCATT
ACTGGGTATA TAGCCAAAGG AATATAAAT. G.TCTACTGT AGAGAAAACA TGCATGCATG TTTGTTTGCA GCACTATTTC
ACAAGAGCAA ACACATGGGA TCAACTTAA

SEQ ID NO:1368: (Length of Sequence = 379 Nucleotides)

329

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CTGGGACAGA GACCTTTGCA TTGCTCCATG TGTTGGCTTC AGCTGGGACA GAGACCTTTG CATTGCTCCA TGTGTTGGGG
CAGGTCTTCC ATTTCAATCT CCTCTGCCCT AATTTATTAG CCATACTTGT GCTATTTATT ACTTTTAAAC CCTAATCCTT
TTTCCGTAAT TTGTTTACAT TTTGCAGAGT GCCAGCATTT TACAATGTGT CTTTTATGTC TCACAGAGGT CATCATTAAG
TTAGACCTTT GGCTTCATGT GTCTCCCGAG AGATGGTTTA TAAAATTTGC ATNCTTCTGG CACAGGTGGT GTGGCTTAGG
GATTAGGACA CAGCCTGCCT GAGTTCACAC CTCATCTCTC CCACTTAACA CTGATAATT
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SEQ ID NO:1369: (Length of Sequence = 319 Nucleotides)
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ATTTCTGGTC TAAGTTTTAT TATTTCCTTT CTTCTGCTTG TTTTAGGCTG ATATTGCACT TCTTACTCCA GTTTTCTAAG
GTGGAAGCTT CGACTATTGA TTTCAAATCT TTTTNCTTTN CTAATCTATG CATTCAATGT TATAAGTTTC TGTGAAGCAG
TGATTTCATT GCATCCCACA TTTTGATAGG TTATATTTCC ATTTAGTTAC AAATAATTTA AATTTCCCTT GAGATTTCTG
CTTTGACTTA TGTGTTATTT GGAAGTGTAT TTTTATTCTC CAAATATTTA GAGATTTGCA GCTGTCTTTA TGTTATTAA
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SEQ ID NO:1370: (Length of Sequence = 343 Nucleotides)
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GGAAAACATA AATNTTGACA AGTAGTTCAA GACTGTTGGG ATAAACTTAG CTAGAGTGCA GGTCATAACT ACCCATCTTT
ATAAGGAAGC TGAAAAGGGA AGTATGAGGA CAGGGAGAAC AATGACTTTN TCTCTCAAGC TTGACTTAAA CCACCAGGAA
AGTTCTTAAA GCCAAAGCCT TTCTCAGACT CTCACCAAAC CATAAGAGTC AGAAAAATGG TCGTTTTCAA AGGAGTAGAA
AATTCTGTAC AAAGTAAACA ACAGCTGAAG CAGGAAAGGN ACATACATTT NNTCACTTAG TGGCACGCAG GCAAAACAGA
ACATAGGGCC AGCTTGGTTA TTT
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SEQ ID NO:1371: (Length of Sequence = 295 Nucleotides)
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ATTTCTNCCT GGGCGGCGAT GATCTGAGCA ATGCCCCCCA CAAACTTGGT TTTCACTACA ACATCGTCGT CATCAGCTTT
GCCAAAAGCT GCCTTCTGGG CTGCACGGAC AAGATTGTNT GAGGCTCTTT TCACAGCATT TCCTGCCGCC TGTAGCCGCC
TCATGGCCTC TNAATCCTGG TCGGCCTTCA CCTTGCAGGC CACCAGCAGC TGAGCCGTGG AAGCGGCGAC CTGCTTGGCA
GATGAGATGA GCTTCTCCTC GCTGGCGTGT CCCTGAACGG AGGCATTGGC CGCCT
```

SEQ ID NO:1372: (Length of Sequence = 340 Nucleotides)
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TTTGCTTTCA GATAATGTTT CTGTATACTT TATAAATGCT ATCTGTGGTA TCTCCTGTAT AATTNACAAT GTTTGCATGT
AAAAAACAAA ACCCATAGAC CTTAAAAAAA AGAAAAAAAG AAATATACAC TATACATAGG CACAGCTTAT GCCCAGAGCA
TAGCAGGTGC ATAAAACACT GTTGCTATAA ATGCAAGAAA AAGGTCATTT AACCACAATC ACATTTTTTT NCATAAGNGN
GTCTGAAATC TATACAATAT ATACATCTAT GTTTCAATGT GGAAATAATA TTCTTTTAAA TTTCAAGGCG TGTTATACCC
CTGCAGGCCT GCATAAATGG
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SEQ ID NO:1373: (Length of Sequence = 315 Nucleotides)
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AATCCTGGGG GTGATTTAGA ACTTAGAGGC ATTCTCAAAA TGGACCAAGC TAAATGGTAG CCTTTATTTN CTGTAATGAT
TCACCATGGG AAAAATTAGTA ATTCTTTAAA CTTCTTACTT AATCTTATAT GTATTCCAAA TTTNCTAAAA AGAAATTAAC
CTAGAGGTTT TACAGAACTC CATTTTTTTT TTATTTNCCA GAAAGGAAAA ATTTATCTGT NCTGTNATTT TGTTAAAAAT
CCTATTCCAG CTACTACTAT GGAAAAAGGA AAAGAAGAAA GGAGGAAAGG AAGGGAGAGA GGAAAGGAAG GGACG
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SEQ ID NO:1374: (Length of Sequence = 327 Nucleotides)
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GAGCCAGTGG TGGCCCCCAA CAGCCCAATC TGGTACTCAG TCCAGCCTAT CAGCAGAGAG CAGATGGGAC AAATGCTGAC
GCGGATCCTG GTGATAAGAG AAATTCAGGA GGCCATCGCA GTGGCCAATG CAAGCACTAT GCACTGAGAT GCCTTGGCCA
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330

AAAGGAAAAT ATAAAAGAAA ATAAAATCTC ACATTGGTGC TTAGCAGGAG AATTTTTAAA GACTTACAAA TCAACAAGCT
GTTCAAATAA ATAATGAATG CTGCAGCTGG CTCTTACATG GGGCTTTNAG TGTCCCANTA GTAGCAGATG TCCCAGTTCT
ATAAAAT

SEQ ID NO:1375:   (Length of Sequence = 338 Nucleotides)
TGCATGGAAA CTTAATCTAT TCAGGTCCCA ACTTTCAGGC TTCTCTGCTC TGACAAGTAC TAGAGGCCAA TATGATAGAC
TAGTCTGAGT TGGATGCAAG TTAGCCATTT CCAGGAATGA TACCAGGATA AGTATAATGG TCGTGAATAT AACCGGATTT
TAAGGGAGAA TGATTACACC TGGAAACAAA CTGTCAATAC ACAAGTAACT AGTTGTTAAA GATTTCTAAT TTTGACCAAA
GATTTTTACT TTCCTGGTAT AGAAATGGAA ATAAACATTN ACACTTTAGG TTTTGAAAGC AACCACCTCC TAACACGGTT
CTGAGTTGGG GGCCAACA

SEQ ID NO:1376:   (Length of Sequence = 307 Nucleotides)
CAAGCCTCCC TCAAAAAAAT CCCCAGAGTA ATGAAAATAC AAAGTCTGCT TGTTCAAAAT TATGGTGCGA ATAAAAAAGG
AAAGGGAGGA AGTGATGGAG TAAAGTTCAG ATTAAAAATA AACGGAAAGT CACAACAGTC GAAAGGTGGA AAAAAACCGC
AAATGCCCAT GANCTGATGA ATGGATAAAC AAAATTTGGT GTGTGTGTAT ATATGTGTAC AAACTTCCTT TTTATGATGA
AATAGTATTT CATTGTGTGT GCACATGTTN CACACACANT TTAAATAGTA TTTCGTCATA AAAAAAG

SEQ ID NO:1377:   (Length of Sequence = 353 Nucleotides)
TGGAATACAC TTGTGAATAC AGTGTGTAGG ATACATTAAC AGTTTTCTGA GTGGGCTGCT CTTTTTTCCT CAATACTGTA
TATATTTTNN TTAAGCTCTT CTTTTAAAAGA TAAATATTTT TCATACTTCT CTTAAATCCT CAAGGATTAA CTCTGAGTCA
CCATTGTGG TATTTTAAAT CCTTTTAAAT AAATCTCTGT ATTTGCAACT GCATCAAAAC AGTAAAACAT TTCACAGGGT
AGGATCTGAT GACCATTTTA TAATCAACAT TTTTAGGTAC CACAAGAG ACTTTATGAG CATCCACTGA AATTATGGGC
ATTATGTCAT ATAAATATCC AAAAATCCAT TTT

SEQ ID NO:1378:   (Length of Sequence = 315 Nucleotides)
GATTTGGCAA ATATTTGGGT GAGATTTGAA AATAAATTAC ACCACTG.TG CACAAGTTAA TGTGAATCAA GCATCTGTTT
ATTTCATTCA GTTTATGCCT TTNTTTCTTT TTTTGTGCAG TGCAGTTGGG GTCACAGACT CTCAATTTGA CAAGACACTT
TAAAAGCAGG AGTAGAAATT AGGC..GGGT TTTACAACTA TTACAGGAAC TGTCATAACA AACTTCAAGT GGATCAGTTT
ATTTCTGATT TAACTTGGGG ATAAACAGTG TTCAATATTT TCCAAAAGAT TCTCCCCATA TAGAAGTCCC AAAAG

SEQ ID NO:1379:   (Length of Sequence = 352 Nucleotides)
ACCGCAAAAT TTAGCTGTTT ATTAGGTTGC AAGTCTCTCC TTCTCTCCCT GCTTTCTCTT TCTNCTTTTT CTCCCCACAA
ATCCTCTCAA AACACATACA AAAAGAGAAA ACTAGAAGCA AGATTGGGTC AAACATGAAG AACACAGAAA GCNTATTAAA
TAGCTAGCTT TAAAGGGCTC TTTTTCAGTT TGAACAAAAG TAAAACGTTC TCAAAAGCAA AAACAGAAAA CAGAGCTTCC
ACCCAGATTG TGCAACTTAA TGAGAGGAGG TTAGTGCTGA TAAACCCATT GTGAAATCTA TTATAAAGTG ACAGGTTTTT
CAAGCAAGGA AATCCAATCC AGTTGGGGGT TG

SEQ ID NO:1380:   (Length of Sequence = 261 Nucleotides)
AAAAATTTAG TCAAGACGTG AATAGATATT NCTGCAAAGA AAACATACAA GTGGTCAATA GGTATAIAAA AGGTATTCAA
TATCACTAAT CATCAGGGAA ATGCAAATCA AAACCACAAT GAGTTATCTN CTCATACCTT TNATGATGGC TAATATTAAN
CGAGAGATAA CAAGTGTTTA TGGGGGTGTG GNGAAAAGAG AATGTTCGAA CACTCTTGGT TGAAATATAA GTTGGTAGAA
CCATTATGCA AAACAGTATG A

331

SEQ ID NO:1381:   (Length of Sequence = 273 Nucleotides)
GCCACTACAC TCCAGCCTGG GACACAGAGC AAGACTCCCT CCCAAAAAAA AAAAAAAAAA TTATTAGAAA GAGGAAGAGA
GAGATGNCAA AGCCTTTTAC AGTTGGGTGT TGGGNGTTAG AGACCCAGTA CCCCAGCCTG ACATACCTAC AGAAGCAGTG
AATTTACTTA TTTACTGTTA TGAAAAAAAT AGATGCTGCC AGCCGTGCAC AGCAGAAACT ACTATTGANT CATATGGTTT
TAGCCTTCAC CTTTAAATAT GTCTAATTAT ATG

SEQ ID NO:1382:   (Length of Sequence = 296 Nucleotides)
CTCCACAGCT GCCACATAGA ACAAGCAAAT CTGACATCAC AGCTCTTTTA AAAATCTCCC AGAATTCTAC ACTGGAATAA
AGATCACCCA GTAAACTCAG CTATGTTGAT TCGTAGGAAT TTCTCCTTGG AGTTAATAAT AATCATTAGA AAAAAAATAC
AGGAAGAAAT AACTTCCTCC TATTCTTATT GTGATAAATT GTAACAATAG CAGACATTCG TATATAGATC CTATAAGCGA
CAAGAGGGAA AATAGGATTT GCAANTTAAG CATCTGGAAT AAATATTTTA GGAAAA

SEQ ID NO:1383:   (Length of Sequence = 293 Nucleotides)
CCAAGGACCG GGCCGTGCGG CTGCTCTGGG ACCGCTTCGT GCGGGGCTGC CGCGCCGACT GGTACGGAGG CAATNACCGC
TCGGTCATCT GCTCTGACCA CTTTNCCCCA GCCTGTTTTN ACGTCTCTTC GGTTATCCAG AAGAACCTGC GCTTCTCCCA
GCGNCTGAGG CTGGTGGCAG GCGCCGTGCC CACCCTGCAN CNGGTGCCCG CCCCGGCACC TAAGAGGGGA GAGGAGGGAG
ACCAAGCAGG NCGCCTGGAC ACGAGAGGAG AGCTTCAGGC AGCCAGGNAT TCT

SEQ ID NO:1384:   (Length of Sequence = 378 Nucleotides)
GGTGGTTTTG ACATGTAGAA AATAAGATGG AAGGCTGAAC TAGGGCAGTG GTGTTGGCAA ATAATCAGAT TTCAGGAATA
TCACAAAGTG AGGNGCCCAG GATTCATGAC CATTTTNATG TAGGAATAAG GGAGGAGCCT AGGATGACTC CCCCAAGTTT
CTGGCTCGAG TAACTGGGAT ATCAACAAGT CATTTAGCAA AATAGAGAAA ATAGGAGAAG CAGCAATTTG AGATAGAGAT
AGAGGCAATA TAAAGNNTTA TATATTGACC ATGGTAAATC ACCTAAATTC AGAAAGTTGT AGAAAACTTG GGTCTGGANC
TCAGGAAAGA CACTGGATAT GTAGATTTGG AAAGTTATCA ATCTCAAAGT GATTGCTT

SEQ ID NO:1385:   (Length of Sequence = 204 Nucleotides)
TCATTCTTGG GTGTTTCTCG CAGAGGAGGG NTTTGGCAGG GTCATAGGAC AATAGTGGAG GGAAGGTCAG CAGACAAACA
AGTGAACAAA GGTCTCTGGT TTTCNTAGGC AGAGGACCCC GAGGCCTTCC GCAGTGTTTG TTTCCCTGGG TACTTNAGAT
TAGGGAGTGG TGATGACTCT TAACGAGCAT GCTGCCTTCA AGCA

SEQ ID NO:1386:   (Length of Sequence = 238 Nucleotides)
CCCCATCATG GGCAGCCAGA GCTCCAAGGC TCCCCGGGGC GACGTGACCG CCGAGGAGGC AGCAGGCGCT TCCCCCGCGA
AGGCCAACGG CATGGAGAAT GGCCACGTGA AAAGCAATGG AGACTTATCC CCCAAGGGTG AAGGGGAGTC GCCCCCTGTN
AACGGAACAN ATGAGGCAGC CGGGGCCACT GGCGATGCCA TCGAGCCAGC ACCCCCTAGC CAGGGTGCTG AGGCCAAG

SEQ ID NO:1387:   (Length of Sequence = 295 Nucleotides)
TTTTTTTTTT TTTTTTTTTT TTTTANTTAG GCAAGAAGAG GTGTGAGTAA TTGAGGAAAA ACTGACAGAT GCTTTTCCTA
ATACCAAAAT TGAGCTTACA ATTAGGAACT GAGTATGTGT AACAGGNTAC AGGTGACAGT GAAGATAGAA GAACCACGNT
GACCACAGAC TCAATGTGCT CTGTAACATC GCACAGTTTA CCCAGCATGA CTTTCCTTAG GAGGCCCCCT CCTCACGCTA
GAGTAAAAGT CCCAGTTAAG TGAAGCCTAC CAGAAGAACT AGTA.AAGAA ACTTI

SEQ ID NO:1388:   (Length of Sequence = 201 Nucleotides)

332

GCTAGTNATC TCTCAGACAC TTGGTCGGTA GAAAAGATCC CGCACCATCC TCCAGGNTCC AATGGCCTTG GAGAGAGGGC
TGCAGGGCCC ACGGNCATTG CTGACTCTTT AGAACGTGCT GACATGGAGC CAGACCACTC GGCCCTGAGT GCGGCGAGGA
CCCTNTTTNT GGATGTGGAG GAGCGCGGGC CGGAGCATTG T

SEQ ID NO:1389: (Length of Sequence = 399 Nucleotides)
GGTGCCCTGT TATCTGGTAA AAGAGCCACT TATGACCTCA GGTGCTACTT AACCTGGGGG GCAATTGTTT CTTAGGCCTA
GCAGATGTTT GGGATGACAC TAAAAACTCA GTGGTGAGAT GATTCCCTTA GCAAGATTGC TGAAGTTAGG TTTAGACGTG
GGAGGGTGGG TATGTGAGCA ATGGTGCCAA TAGCGGCTCT TTATTTGCCT TGTCCTCATT ACTGCCATCA GGAAGGTGCT
ACTGGCCTCG AGCCAGGGTG TTCATAATCT GGCCTTGGGT TAACCAGACA AATAGAACTT CTTTTCCTAG ACTGTTGGCT
TTNTGGAGGT TGGCAGCCTC TATCACAGGN TAAAATTTCC CAAATCCATT TACCCAGTAT ATTCACTACA ATTTTTTCC

SEQ ID NO:1390: (Length of Sequence = 381 Nucleotides)
GGATTGAGGT GAAGATACAA CAAAGAAAGG AAATTGAACG GAATTATTAA GAGGGTCAAG TTTGATAGGC AGATAAGACT
AGGTATCAGC AAGACATTTC AAACAAAAGG AACATTATGT AATTTTTTAA AAAAATACAT GAAAATAATA TTTAANCAAG
GAAGGAATAT GATAAAAGAN GGATAGTTAG TAAAATTTGG ATAACATAAA GATTATTGAA TCTCCAGTCG TCAAATTTAT
CCTAAACTAC TGGGGAGAGG TCTCATGTCA GATTTTGATT ATCGAGAAAG AGGGGTCAAG AGTATAAGNG AAATTCCTTT
TTGTTTTGAA CTTCCAGTGT CCCNCTATTG TGGGCAAATA TCAAATTCAA ACCAAATATA C

SEQ ID NO:1391: (Length of Sequence = 327 Nucleotides)
GAAGAAGTCC TTCTTAAGCA AGGCTTACAG ACTCCCAGGG AGAACAAAAT CTCTTTATCT CTCTGGGGTT TTAGGACCCT
CATCAAGTCA TAGAATTGAA ATAGAGAACA TCAATTGTNC AACTTTTTAA TTTTAATAGT TTTTGTAGTA CATAAAAATC
ATGTTATGAA TTATTTTGTA GTTTTAATTA TAACTTTTTT AGCACTTTTA CCATATTCTT AAAAATTAAA AATTATGAGT
NCTGAGAAAG CAGTGAAATC ACATATAGGT ATTTGATTAA CTTTTATGTG ATCTTTTACC TCAAGCTAAT GTTTCTTAAA
ATCAAGG

SEQ ID NO:1392: (Length of Sequence = 223 Nucleotides)
TTTTTTAATA TTTAAAACAA TTTTATTCAT GAAAATATGC TGTACAATGC ACTCTACACA GCCTCGACAC GGCACACACG
CACACGCACA CTCTGACGGC ACGCCACGG TACACTGCCT ACGATACGCG CCGGGGACGC CGCGCCCACC GCCCGTCCCG
GCCGGACACT TATAAATATG GGAGAAGGGC CAGAACTNGC GCGGAGAAAG GGGCGTCGGG GTT

SEQ ID NO:1393: (Length of Sequence = 296 Nucleotides)
GAAAGTTTAT TATTTCCCAA TGTNCTTTAC ATTNCATTT GGAAATATCA TTCCTGACAG AAATAGNTAC ATTATACCTT
CGAAAGCAGA AAGATCTTAA TTAATTAAAA CAGTTTACAT TTACCTTAGC ATTAGGTCTG GCTGGCTAAT TTCAAAGGAT
TAAAAATTGC ACCNATTTGG GCCAACTGGG GTCCTGAATA ATTATCCNGG GTAAAAGTAT AATATTTCAT ACTTTATACA
TTTTGCTTCA TCACACATTT ACTTTCCACA CAGTGNTCAA CTTCACATTT AAAAAG

SEQ ID NO:1394: (Length of Sequence = 281 Nucleotides)
ATCTTTGCAT CCCTGGGACG ATTTCCAGTT GAGCATGGTG AATAATCTTT TTGATAGGCT GTTGGATTTG AGTTGCTAGT
ATTTTNTTGG GGCATTTTGC ATCTGTNTTC ATCAGGGATA GTGGCCTTCA GCTTTCTTTT CGTGTGTGTG TGTCCCTGTC
TTGTTCTGGT ATTCGCGTAA TATTGGCCTT GTAGAATGAA TTTGAACAA TTCCTTTCCT TTTCATTTTT TGGTATTAAT
TTAAGAAGAA TTAGTATTAG TTCTNCTTTA AATGTTTGGT A

333

SEQ ID NO:1395:   (Length of Sequence = 323 Nucleotides)
CTTTTTTTAA GATTTCAAAC TGGGTTACAC ACTGGAAAAG GCTGGGTTAA GGGCCGAAAT TTAATAAATC TGTACTGATA
ACTAAAGGCT ACAGAGATTT CATATATTTT TTTTAACTTT TAGAAATCAG AGTGCTTATA AAATGGCTGG CTCATGGCTC
TGTCACCCAG CATCTCTGAC GCCGCCTCCT AGCCTTCGTT GGTGAGATAA CCNGGNATAG TGATTCCATG CGTAAACAAC
AAGAATACTA AACCAATAAA ACTAGCTTAT CATGCAAATA TTANGGCATC TAGAAAGTCA GTTAAAATAA TATTGTCATA
GAG

SEQ ID NO:1396:   (Length of Sequence = 384 Nucleotides)
TGCCTCCCGG GTTCATGCGA TTCTNCCGCC TCAGTCTCTT GAGTAGCTGG GATTACAGGC ATGCACCACC ATGCCTAATT
TTTGTACTGA TGCCAGCACT TTCTTAGCAA CCCCAGCTGG TGTCCTAGTA TGCCCCCTCC AGTCCACTGT CTCTGGGCCC
AGTTCAGCGC TAGGACTTGC TTAAGAGTTT CAGTCCTTGT AGCCTATACT GCCTTTNACG TTTATTTAGA GATCTAGAGC
ACTTTAACCC TCAGTGGCAA GGTTTGTGGG AACTTGAGTT CGGACCACTG GGATTGGCAA ATTCCCCTCT GGGCTAGGGT
TGCTTTAAAT GCTCCCTTCA CGTGTGGGCA ATCAGCTGAG TTTGGTCCAG TTTTCCTTTC TGCT

SEQ ID NO:1397:   (Length of Sequence = 370 Nucleotides)
TTGAGTTTNT TCAGTGGCAT CCCCTGCTCC CCTGAGCACA CACAGTGTTT TCTATTTATG ACTGTAGTGC CAAGCAGAAT
TTCCATGTNC TTGCTAGCTG CCCATTCTCA CCCCTCAGGG TCTCATACTT CTCCCTGGAA GCCTCCCAAG CAGTCAATGT
GACAGGGACC AAGTATGTAC AAGGCAACAT ATTGGGTTCA AGTGCAAACT AAGGGAACCA GGGCCTGTTT TTCTAGTTTG
GAAGTTTTTC TTTATCCTAA GAAAAGAGAC AGACCAAAAC CAAGAAGATC AACAATAACT CTTCTCTTTG TCATCACGGT
GATGACATCA AGGTACTGAT ATTAACCAGA AGTTACAACA AGAAGGAATT

SEQ ID NO:1398:   (Length of Sequence = 307 Nucleotides)
ATCAGCATTA GGTTTTCACC AAAGTGATAC AAGTCTGAAG GTCTTCATCA GCAGTCTCCC TCATAGTCAG CGCCATACCG
AAGAGGCCTG TCCCTCTCAT AGGGCCTTCC AGCCACTNCT TCCCCACAGG CCTGATTCTN CTGTGGCTGG GAGTGTGGAC
TGATTTGTTA TGATGTGAGA GATCCCNNGG GGTGTGAGCT ACCGCACCTG GCTGAACTTT CAAGGAGAAG TTTGTGCATC
ANTTTTCAAA AAATTATGAT ATCAAAGAT AGCTGTGCCC TACATTTGGG AAAGATACAA AAACTTG

SEQ ID NO:1399:   (Length of Sequence = 380 Nucleotides)
CTGAATTATT GAGGATGAAT TGATAAAGAC AGGTGTAATG AACTGAGGCC GGGCATTAGA CTGAGCAGCT GACTGTCCCT
CAGAAACCAT AACCTTGCTA CCCGCATTGG GCATTGTGAC AACTGTTGAC ATCAATGCAG ACTGCAAGTN AGTTGGCAAA
GCTGCTGATG TGTTAGCTGA AGTTGTGATG GGATTGGAAG TGACAAATAC AGTTATTTGA TTTGGGGGCA AGGGAGTNGA
AATGGAGGAA GAGCTAACAG GTCTTGACAT TACTGGAGGG ATGCTTGGTG CAACGTTAGA ACTGACCTCA CTCAATTCGG
GGATGCACAA GGGATGAACA CAGCTCATTT CCTGTNAGGT AAGTTTAGGG AATTAGAAGG

SEQ ID NO:1400:   (Length of Sequence = 232 Nucleotides)
ATTATAGATA CACACCACCA CACCCGGCTC CTCACATTAA AGTGGGNTTA TGACCATGAA CACTTCGTAT TAATAAATGT
CTCAGCACAC CCAAGCCTGA AAATCTGATC TAAACCTCCT TAACTTGAAT TCCATCCACA ATCCACAACT TNCTCGGNAA
AAATNTNTCC CAGCTTCTCC TTCCTCTAGC CCAAGAAACA GCCTTAACAG CGNGCGATTT CATTCCTACA CT

SEQ ID NO:1401:   (Length of Sequence = 349 Nucleotides)
AAGCTAAATT TATAATGAAC AGATTGAAGA AAAATAAAGA GCTACAGAAA GTTCAGGATA TCAAAGAAGT CAAGCAAAAC
ATCCATCTTA TCCGAGCCCC TCTTGCAGGC AAAGGGAAAC AGTTGGAAGA GAAAATGGTA CAGCAGTTAC AAGAGGATGT

334

GGACATGGAA GATGCTCCTT AAAAATCTCT GTAACCATTT CTTTTATGTA CATTTGAAAA TGCCCNTTGG NTACTTGGAA
CTGCTAAATT ATTTTATTTT TTACATAAGG TCACTTAAAT GTAAAGCGGT TAAAAGACAT CTTTNCTNGC ATTGCCATCT
TAATATC AGATATTACG GGATGTTAG

SEQ ID NO:1402:   (Length of Sequence = 338 Nucleotides)
GTAATTGCTA TTTGATGTTA TTTTAAGAAA TTAACCCTTA AAACTTTAAT TCCTTAAAAC AATCTCAAAC AGAAGAAGCA
AAAGCTTGTN CTGTGCTCCA GGAAATAAGA TTCAGCACCA ATGAAAATAA ATTATAGAAA ATCAGAAGAT GGGTCAATAT
GAGTGGAAAA AACCTAACAT TTTAATTGTT TTTNCTCTCA ATAATTGTGT TGAACCATCC AAAAAAGTAT GATACAAAAA
TAGCACTATA CTAAGAGCCA GATGACATGT CCTTAAAGCC TTAGCTCTGC AAATTATTGG TTGTGTAACA CTAGGGNACA
ACACTTAGNC TCTCCTAG

SEQ ID NO:1403:   (Length of Sequence = 381 Nucleotides)
GGAGTCTCAC TTTGTTGCCC AGGCTAGAGT GCGANGGCGT GATCTTNGCT CACCACAACC TCCATCTCCT GGGTTCAAGC
GATTCTCCTG CCTCAGCCTC CTGAGCAGGT GGGGTTACAG GTGCCCGCCA CCGCACCCAG CCAACTTTNT GTTCTCAGCA
GAGACGG3GC TTCGCCATGT TGGTCAGGCT GGTCTCGAAC TGACCTCAAG TGATTTGCCC ACCTTGGCCA CCCAAAGTGC
TGGGATTATA GGCGTGAGCA CTTNCACCTG GCCTCTAAGC TTAATCATTT CTAGGCTTTT NATTTAAAGT GAGAAACATG
TGACTCTTTC CTTTCATTTG GGACACTTTA AAAGGGGTTA TTAAATTGAC CCTAATTACA A

SEQ ID NO:1404:   (Length of Sequence = 325 Nucleotides)
AGCTCATCAG CTATCATTTG TGTTAGTGTA TTTNATGTAT GGCCCAAGAC AATTCTNCTT TTTCCAGTGT GGCCCAGGGA
AGCCAAAAGA TTGGATACCC CTGACAGGAT TCCAGGATTC TTTTGTAATT NCTCAGAGGC CCTCTGTGCA TACTCCGTAA
GGACTATCCA CATTCTTTAT TACTTTCATT GGCAATAGGT ATAAAATTTT ATTTGTTGGN TATTTTACTG NAATGTTACT
TGTTTTTGCT TATTTACTGA TTGGGTGGGA GGAAGTCAAA GGATGAATAA ATCTAACCNT TTTTAAAAAG GAAAGGCTAA
AAATA

SEQ ID NO:1405:   (Length of Sequence = 349 Nucleotides)
GGATTATGAC TGAACGTCCT CAGCATGTTG GCCTTCACCC CTGGCGGTGG CTCGAACACA AAGATGCGGC CCGCACGGAG
CAGATTCACA GGCACCTTGG GGTTGATCTC CATGGTTAGG AAGAGTCGGA AGCAGGCATG CGGCTGCAGG AATGCAACT
TCTTCTCCAG CTGCATCAGC CACCCTGGGG CCAGATGCAC ATTCTTCAGC ATCACCCACC TGCCCGANTT TACAAGCGGT
GTTTTATTGC CTTATCTGCT TNGTTAAAGC CTTCTTCAGA GCCGATTGCA ATTGAAGGGA TCTTCGGGGT TCTNCTCGGC
TNCAAAGGTC CTCGACAATG TTCCCCTTG

SEQ ID NO:1406:   (Length of Sequence = 392 Nucleotides)
GGACTGCCCG TTTGTTTATG AGACAGGGTC TCATTCTGTC ACTCAGGCTG GAGTGCAGTG TCATGATCAT GGCTCACTGC
AGCCTCGACC TCTCAGGCTC AAGTGATCCT TGCATCTCAA CCTCACGAGT AGCTACGACT ACAGGTATGC CCCACTATGC
CTGGATAATT GTNCCTTTTT TTTTTTTGGT AGAAACAGGG TCTCATTCTG TTGCCCAGGC TAGTCTCAAA CTGCTGGACT
CAAGTGATCC TTCCAACTCG GCCTCCCAAA GTGCTGGGAT TACAGATGTG AGTCACAATG NCCAGCATGG ATTGTCCTTT
TCAGACCCAG ACCAAAGAAC AGGACTTATT TGTCCCAAGA CCAATCTAGG NAAAGTATAA GCTGTGTTGT CA

SEQ ID NO:1407:   (Length of Sequence = 362 Nucleotides)
GTTAATTGGG NTTCACAAGC AATAATTTCT CCACAACAAA AACCACAACT TGAAGNGAGT TGAAAAGNGN TCAATAGTGG
AAACAGTCGC CTCAGTACTT TTNCTTTCTG GNTTTCATCT CTAGAAATTT NAAGTGTTTN AGNCAGAGTC CACCCTTTGT

GCAAGGCGNG AACCNATGAA TGGACTCCTT GTGTGAATTA TTGCATCTTC TTCCAAAGCA GGTTCATCAA GACTTTCACA
GAGATTCATT TTTNTTGAGA AGTAAGGGTT AATAGGAGGA TAGAATTTGG TTCCNAATCT AGTGNTAAAA GTGTCCAAGC
AAATCAAAAA GTAAGATATT TTAGGGGCCA TACCCACATC TT

SEQ ID NO:1408: (Length of Sequence = 388 Nucleotides)
CCCCGCAGCA CCACGAGCTG ACCTCGCTCT TCGAGTGTCC GGTCTGCTTT GACTATGTCC TGCCTCCTAT TCTGCAGTGC
CAGGCCGGGC ACCTGGTGTG TAACCAATGC CGCCAGAAGT TGAGCTGCTG CCCGACGTGC AGGGGCGCCC TGACGCCCAG
CATCAGGAAC CTGGCTATGG AGAAGGTGGC CTCGGCAGTC CTGTTTCCCT GTAAGTATGC CACCACGGGC TGTTCCCTGA
CCCTGCACCA TACGGAGAAA CCAGAACATG AAGACATATG TNAATACCGT CCCTACTCCT GNCCATGTCC TGGTGCTTTC
CTGCAAGTGG CAGGGGTCCC TGGGAAGCTT TGATTGTCCC ATNTNAATGG AACGGCCCAC AAAGAGCA

SEQ ID NO:1409: (Length of Sequence = 348 Nucleotides)
CAATGAACTC CTTAAGCTTT GTTAATATGA GAATGTCTTT ATCTCTTCTT TATTTCCAAA GGACAGCTTT GCTGGTTAAA
ATATTCTTGG TTAAGTTTTG TTTTTAGTAC TTAGCATATA TCATTCCACT CTCTCCTGGC CTGTAAAGCC TCTGCTGAAA
GATCCACTTC TAGCCTTATT GAAACTCCCT TCTATGTTAT TCGNTTCTNC CTCTTGCTGC TTCCAACATC CTGTCTTTGT
CCATAATTTG TAACAGATTG AATATAATAT GAATTAGNCC TCTTTAGACT GAATCTCATT GGAGNCTTTT CACCCTTCTT
GTTTTTGGGT ATTTATNTCT TTTCACAG

SEQ ID NO:1410: (Length of Sequence = 370 Nucleotides)
GACTATTTAT TCTGCCTTAA ATCAATGGCA AATAAGTCAA GATGACATTT TGTGAATGTA GACTATGGAT ACACTCCTAA
TAGATTGATG TAGTCATAAA AGGGGGTCAA GTAGATGTTT TNCTGTTATG TAAGCAATAA TTTTCCCGTG TCTTATTGAG
TATGGCTAGC GATTATTTAT TACATGCTAG ATGGGTTCTT TGCATGTGGG TTCCATATAG GTGCAGAAAT TTCCTCAGCC
ACTGGAGGGA TTTCGACCAT ATTTGTCATT TGGATGAGCT GTTATTAGAT TGAAATCTAC ACATCATTTC ATTAAAAATT
GTGCCCTAGA AAACGCAAAG CTNTTGCACA ATGGCGATTA AAATTATGGG

SEQ ID NO:1411: (Length of Sequence = 385 Nucleotides)
GTCTCAAACT CCTGACCTCA GGCGATCCAC CCACCTCAGC GTCCCAAAGT GCTGGGATTA TAGGCGTGAG CACCGCACCT
GGCCTATGAG TGGTCTTTTA ATTAGGAAAT TTACATTTTT ACATTAGTGA GATTGGTCTT TTGGGCTATT GTACTTTTTT
TTTTTTTTTT TTGAGATGGA GTCTTGCTCT CTCACCCAGG CTGGAGTGCA GTAGTGCAAT CTTGGCCCAC TGCAACCTCT
GCCTCCTGGG CTCGAGTGAT TCTCTGCCTC AGCCTTCCAA GTAGCTGGGA CTACAGGCAT NTGCCACCGC ACCTGGGGTA
ATTTTNGTGG TTTTTAGTAG AGAATGGGGG TTTTGCTAAT GTTTGGCCAG CTTGGGCTT GAAAT

SEQ ID NO:1412: (Length of Sequence = 337 Nucleotides)
CCATTCAGAT TCCTCCTGGG CCTCCTCGCC CCATTTGCGA CAGATTTGCT ACCTGCTCCA GCTCAGCGAC CCTTCCCTCT
ATGATGAAGT GCATTGAAGA GAACAATGGT GTGGACAAGA GGATCAGCAG GTTTATTCTC CCCATCGGGG CCACCGTGAA
CATGGACGGA GCAGCCATCT TCCAGTGTGT GGCCGCGGTG TTCATTGCGC AACTCAACAA CGTAGAGCTC AACGCAGGAC
AGATTTTCAC CATTCTAGTG ACTGCCACAG CGTCCAGTGT TGGAGCAGCA GGCGTNCCAN CTNGAGGGGT CCTCANCATT
GCCATTATCC TGGGAGG

SEQ ID NO:1413: (Length of Sequence = 357 Nucleotides)
ATAAGTGGAG TGAAGAAATT AATGCATAGT TCAAGCCTAA ACAATACAAG CATCTCACGC TTTGGAGTCA ACACTGAAAA
TGAAGATCAC CTGGCCAAGG AGCTGGAAGA CCTGAACAAA TGGGGTCTTA ACATCTTTAA TGTGGCTGGA TATTCTCACA

336

ATAGACCCCT AACATGCATC ATGTATGCTA TATTCCAGGA AAGAGACCTC CTAAAGACAT TCAGAATCTC ATCTGACACA
TTTATAACCT ACATGATGAC TTTAGAAGGC CATTACCATT CTGACGTGGC ATATCACAAC AGCCTGCACG CTGCTNATGT
AGNCCAGTCG ACCCATGTTC TCCTTTCTAC ANCAGCATTA GACGGTG

SEO ID NO:1414: (Length of Sequence = 360 Nucleotides)
GTATACAGCG TGGTCCAGCC ACCCGACAGC GAGATGGGCA TTTTAAGAAA CGCTCTCGGC CAGATCTCCG AACCAGAGCC
AGAAGGAATC TNTACAAAAA ACAGGAGTCA GAACAAGCAG GGGTTGCTAA GGATGCAAAA TCTGTGGCCT CAGATGTTCC
CCTCTACAAG GATGGGAGG CTAAGACTGA CCCAGCAGGG CTGAGCAGTC CCCATCTNCC AGGNACATCC TCTGCAGCAC
CCGACCTGGA GGGTCCCGAA TTTCCAGTTG AGTCTNTGGC TTCTCGGATC CAGGCTNAGC CAGACAACTT GGGACGTGCC
TCTGCATCTT CAGACAGAAT TNCTAGCCTG CCTNAGGAAA

SEO ID NO:1415: (Length of Sequence = 314 Nucleotides)
CTCAAACACA GCATTTGAAG TCTTAATATT TTAGTACATA CTATACTATC TCTNCTTACA ATTGTTTTTT GTTAAAGAAA
CCATGTTTTT NATTCTAAAG AGTTTCCTTT ACTGTGGATT TTACTGATTG CATCTTTGTT GATGGGTTAA GATTGTCCNN
::::ATAGCAT TAGTNCTTTC AATGTGCTGT ATTCAGTGCT GCCTCTGGGC TCCTAAACTG TGGAGGGCTG TTTGTCCCTA
::::TAAATGG GGACAGATTG TCCTGCTTTT TAATTTTCAA TGCCTGACTT TTACCCNCTA ACTTTTCCGT AGAT

SEO ID NO:1416: (Length of Sequence = 370 Nucleotides)
TTCCATTTTT GCTCCTTCTC AGGATAATAG CAGACCGGTG ATCACAACTT TAGTTTTGAT GAGATAACCT CCTTATC:: '
TAAAAATGGT CTCTATTATT TTCCAAGAGA AGACCAGTAA ACACTAAACA CCTGCCTTGA TCTCAGTGTC TTAGATGTTT
TCCTGTTTCT CCTTTATCCT AGCAAACTCC CCAGGTTGCT ATTCTTATTC CCATTTTATA GATGGGCAAC TGGGTAAGAG
AGGTAAGCTT GGTGAGGTCA CTGAGATAGT GGGGAAAGGA GCTTGGTTCA CATCAGGTAT GCATTCCCCC AAGGTTCCAC
TGGGGCATCT GAAGGAAGGG GTTTCTGGAA GTGCAAAATA TAGGGTACTG

SEO ID NO:1417: (Length of Sequence = 365 Nucleotides)
GACTCCTTCG CCAAGGGAGC CATCAGCACC AGTTGTTCCA GAGCAGCCAC AACACCAGTG ACCTCCCTTC TGCTTCCGGC
CAATCCCGAC AGAGCCTCTT CCCGAGTCTT GAGCTCCTGG ATAGCTGCCT CAATAAAGCA GGACTCGGGA GTGTGCTTCT
CCTCTGCCAG CTGCTGCTCT AGTGCTACTT TCTCCTCCAG AACTACCCGG TGCAGCACCT GCTCCTTAGA GGCCAGCAGC
AACTGGAGT ACTGGCTGTG CTGTTCATCT CCTAGATGAA TGGGATGGTC TACATTCATC CATTTGGGAT TTTGGGCAAA
AGCCACCAAC AACCCCTTTT TTTCCCTCTT CAATCAAGCT GCAAT

SEO ID NO:1418: (Length of Sequence = 354 Nucleotides)
CCAAATCCTT AAGTTTACAA AGCTGTTGGA AAACTTTGTG TCCTGATTTC AACAATCACG CTTTGTTTGA AAGATGAGCC
AAGCTCACAG ACACTAAATT TTATGTCATG CCATAAGCTG GAGAGGAGCC ATTTGGCTAC AGCTGCGGAA CTTCATTGAG
GAGCAAATGA AAGGCACATG GACGAGCACG CTGGTGCAGT TCATGTTCTT CCTGCCTGTG AATTGAATAC TGTCCTGGTA
GCAGTTTTGG GTCGGTCAGG AGCTCAAGGC TGGTTTGTGT GGCTGACTAC GGATGAGCAC TGAAGTTGCC TCAAAGAATT
AAGGGGTGTC CACANCAGCC TCTTGGGGTC TTTT

SEO ID NO:1419: (Length of Sequence = 363 Nucleotides)
GTGGAAAACG TCGAAATGAT GTGGCCACTG AAAGAAATTC AAGACAACTG AAACAACTNC AGNTTTCCAT TTTCAGCTCG
TGTTTTCTTA TGAACAATAA CATTGCAGAA GGGGAAATAT CAGAAAGTTG ATTGATTTTT AACCCAAAAA TAGAACTTTT
TGTAAGCTAG GAAAGCATCT AAAAATTAACA AGAATACAAA AATGCACTTT TGTTTACATT TGCTCTATTT AGATCTTACA

AGAGATTATG TCTTGAATCT ATCCTGACTT CAGCAAAAGA CAAAAGAACG TTGAAAACAT CCTATTTCCA AATCGTTTAC
AGGAAGTTAC CTAAGGAGNC TGACAGATTC AACGGCTGCT ACC

SEQ ID NO:1420:   (Length of Sequence = 326 Nucleotides)
GAAGATTTTC TAGAAGCAAA TAGTGCCACC ATCCGTCATG AGGNTCTGTT TCTATAACGC TTGTNTGTCT TTNAGACTAC
GTAGGTGGTA GCTTATGAGT AGTAATGTNC TTTTGTTAGT AAATGTCACC AAATAAGCAA ATAAGAGAAA CATGAAGGCC
AAAAACTGTN TTACTATTCA GGAGAAAATG GACGGTTTAG CAACAATACA ATGTAGACTT CAAAATATGA AAAATCAAGG
AAATTNCTGT CATTGTCTTT AAGGGCCTCC AGAGAAGTAT TAATTTGTCC TTTATGTGAA TTTAATGAGA TCATGTGAAA
TGTATG

SEQ ID NO:1421:   (Length of Sequence = 294 Nucleotides)
ACCCAGTACA GGTACTCTCA CAGGAGGCAC TCAGCAGGGA TGTAGTGACA GCAGGTAAGA NTCCACCTCT NTCCCTGCCT
GCNCCTGGGA TCCAGTATTG GCCCATGTAT CTNCCCCATT TCCTCAGGCT TCCTGGACTT TTNTTGGAGG GAAAGAGGAA
CAGAAAGAGG AGCAGGCAGG AGAAGCAAGA GCTCCCGGGG GCTATGAAAG GTAACATACC TGGAGAGTTT NGGGAGACGG
CGGCTTGTNA GAGACAAGGG GAAGAGACAG AAACAGGAGT ATTCTAAGAA GCAT

SEQ ID NO:1422:   (Length of Sequence = 306 Nucleotides)
GAAGGGCATA TTTAATAGCT GCTGCAAACA TATGGAATAG TGCTTTAATC AGTGGTGAAC AAGAAAATTGC CTGTTGTTGG
TTATAAAAAC AAGGGACATT AATGTNCTTG TTCTTGTACC ATAGTAATGT GNAAAAAAAA ATAGTGGTTG NAATGGTGTT
TAATTTGTAC AGTTTGTGTC AAAGTAGAAT GGGNCAGATA TTTTGGTGGA TAGGCTTTTG TCTTAGTTAT AAAAATTAGG
NCATTTGGTA TGATAAAGGC NGAGAATCTT AACAATTGGG CACTGGCCCA GAAAATNCA GGGTGC

SEQ ID NO:1423:   (Length of Sequence = 274 Nucleotides)
TGTGTGTGTG TGTGTGTGTG TGTGTGAGAA ATGGGGAAAG ACTGGTCTAG ATAATATTTC AGGTACCTTC CAACACTAAA
ATGGTATGAT TCCCAGCTTA CAAAAAGCAA ACTATTTTAA TATTCACCAC TCAATATAGT GTATCAAGCT CTCGGTTTAT
GTTTAAGGGC TTAGGGNACA GCAGCAACTA TTCGTGGGCA ATTAATNCAA AAACTCATGT TACCAAAAAG GCATGTTTAG
GNCCTGCAGG ATAGTGAAAA AGCAAGAACA GTCT

SEQ ID NO:1424:   (Length of Sequence = 297 Nucleotides)
GGAGGATTAC TTGAGCCCAG AAAAAAAAAA AAGCCTCAGG GGTTTCGGTG AATGTTGTGT GGACTTCCGT GAGAACAGAC
GTTTGATGTG AACTGANTTC AAGGCTGATA CAGCCCAGAA CCAGGNACAA GGTGAGAAAC TGCTCGTTTC CGGGAGGCAG
GACTTCCTAA CCGGGAGGCA CTGCAGTNCA CTTTCTGAAA CAGGTTTGGA GGATAGGGAA ATTCCTGNCA GCCCGGGGGG
ATCCACTTAG TTTCTTAGNA GCGGCCGCCA CCGCGGTGGA AGGCTCCAGC TTTTGTT

SEQ ID NO:1425:   (Length of Sequence = 276 Nucleotides)
ATTTTTTCAA GGATGGAAAG GTCAGAGAAA AATAAAATAA AACATCTTTC AATAGTCTTT CCTGGTAAAA GCAGCGTCTC
TNTGGGCTGG GGAGTAAAGG GTGTGGGGCA AGGGGAGTGG GGAGAGGCTG TAAACCTTCC CCCAAACCCC AGTTTTAGAT
CCTTTGGTTT CCTTCTCCCA GAAGATGGNC AGAAGGGCAT NGTGGGNAAC AGCAGGGNGG AAAAATATGGT GATGACAAAC
CCCAGATGAT CAAGGGGCTG ATGCTCCTGG GGCCCA

SEQ ID NO:1426:   (Length of Sequence = 295 Nucleotides)

338

TAGTGGCATA TGGACCGGAA AGGGTTAATT TAAAGGGGGG GAACCTCAAA AGTTTTTTTA AAAAAGAAAC TTGTCTGCCA
CAGTATGTTA CCAGTGTTAA CCCTTCTGCC AGTTAGCAAA CTTTTGCCTT AAGCCTTTTT CCTCTAGGAT ACTCCCCATG
TTTCGGTAAT CTTGGGCATA CATTTTTTAA GNATGGACCT CTTTGCCTTG TTTTGTTTTC ATGCTGCTGT ATGTCCAAGT
ATTGTTAATT TCATAATAAG ACAAGAGTTG CTTTCTTTTT TAATTCCTTT TTCCC

SEQ ID NO:1427: (Length of Sequence = 207 Nucleotides)
TCAGGAATGA TAGTATCTGG GATGAACTCT TCTTTAATAA GATTCAGGCC AGTNTTGGTG GGTGTNTGCG GATGATTGTT
ACTGGNGCAG CCCCAGCATC ACCAACAGTT CTGGGAATTT CTCCGGGCAG CTCTAGGGTG CCAGGTTTAT GAAAGGTTAT
GGCCAAACTG AGTGCCACAG CTGGATGTAA CCTTNCACCA CTCCTGG

SEQ ID NO:1428: (Length of Sequence = 223 Nucleotides)
TAACATTCTC TCCAACCTCC CCAGGTCCCA TCAGTGTTGA GAAGGAATCT AGGCCAGCTC CTGGGAGATG CCAGTTAAGC
CGCTTTGAAT CCTGTGCCTT TCCAATTGNC CCTTATAGCA GTCGATGTCA GGGATTGGGA CAACTTTCAA AACAAGTCCA
TCAAAGTCCC CATGGGCACT AGGGGCTCTG GGAACCCAGT GTCGAGAGGC TTAGAGNCAT TGC

SEQ ID NO:1429: (Length of Sequence = 222 Nucleotides)
AAAACCAAGG AGCAAAGGGG AGACAGAGAG AAAAGTGGGA TGGATTCAAA GACATTGCAA CATAGAACTN ACCGAACTGG
CTTGTNTGAG GTAAGGGNGG CAGGATGACT CACAGGTTTC TGGGATTATG TGCAACAGGT GGAAGGTGAT GCCATTAGCC
AGAATAAGGC TGTAGGCTNA AGGGGAGTNA AACTGGTTCT GGGGGTATAA CATTGATAGG CC

SEQ ID NO:1430: (Length of Sequence = 246 Nucleotides)
CAAAATTTCC TGTATCCTTT CATGGGTTTN CTTTTGTTTG TTTTGGTAAG AACATTTAAC ATGAGATGTA TCTTTNAGTT
GTTGTTGTGG TTGANCTTTT TTAGATACAT AGTCTCACTC TGTTACCCAG GACTGGAGTG CCAGTGGACA TGATCCACAG
CTCNCTGACA GGCCTCAAAC TCCTGGGACC CAAATGAATC CCTCCCACCT NCAGCCCTCC CAAGTAGGCT AGGGACTACA
GATGTG

SEQ ID NO:1431: (Length of Sequence = 364 Nucleotides)
CTTNCCACTC GATGATGCTT CTATAATTTT GCCCTTTAAC AGAAACTTTC AAAAGGGAAG AGTTTTTGTG AATGGGGGAG
AGGGTGAAGG AGGTCAGGCC CCACTCCTTC CTGCATTGTT TACAGTCATT GGGAATAAGG CATGGCTCAA ATCGGCCACA
GGGNCGGTGA CCTTGTGCCC CAGGGTTTTG CCCCCAAGTG CCTCCATTTA AAAGCATTAA GGCCGGTACG GCATCTTCAA
AACAGAGGGC TGGCATTCGA GGAAACCCTT GCTGCTTTAG TCCCGATAGG GTATTTGAAC CCCGCNTATA TTTTAAGGCA
TTTTAAATTC TCTTCCCCCC ATTTTATTGA CTTTGAACAA TTAA

SEQ ID NO:1432: (Length of Sequence = 208 Nucleotides)
GTGAGTNAAC ATGGATGGAA ACAAATTATT AGGTTGTNCA AAGTGAAAAA CACCAAAAAT AAGATTTAAA AAGAATGTCA
GGTATCCATA GAAAAATATT AATAGGTCTA ATACATATGT AAAANTTGGC GTCCCAGGGG GNAGAGACTG NAAAGTTATA
TTTTNNATGG CTGAAATCCC CCCAANTTTA ACATAAAGCA CAACATTT

SEQ ID NO:1433: (Length of Sequence = 274 Nucleotides)
GGAAGGTTTT TAATGCATGA AGTATACTTG TGATCCTGGA GGTTGGAAAA GATTCAGTAA AGATAAAGTT TGGCAAAAAT
GATTCTNTCC CTAGGATTTG GGGATATGTA AATCAAACCA AAGGCACATT CTGCAGCTCA CAGCAACCTT CATTTTTTGT

CCTAGATTGA GTTATCTATC AAGAATCATT CATTCCCTCT CAGCCCTTGC AACTGTTTCC NATGACTTTG GACTTGGCCA
TGCAACTTGC TTTGGCCAAT ACAATGTGAG TTAA

SEQ ID NO:1434:   (Length of Sequence = 249 Nucleotides)
GCTCCATAGG TCTAAGTTTG ANCTTTTCTA GAAAAGGATT TGCAGGACGA TCTGACGAAT CTTGGGCTTC CAAATTAGTT
CCAACAGTTC TAGTATTTTT TTTTTTTTTT TTTTGACAGA AGCAAATAAG TAAGTTTNAC TTTGTGATTA AAACAAAAGT
GAAATGCATT TAGTCCCAGG AAATGNCAAT CCTTTCTGCA TCTNACTTTT TTTTGCTGTG ACCTCGAGNT TCTCTTGTCC
TCTTCAGTT

SEQ ID NO:1435:   (Length of Sequence = 201 Nucleotides)
GAATGGGGCC AATGGCACTC ACTGTNTCTT CAGGCCCCCA CGGACGGCAT GCCTGGGGAA GCCTAGTCTA CTTACCATCA
GCACGTTGAT CTNTCACACA GCATGGAGCC ATAGTTTACA AAGGACCACG GCAGGTCAAG GACAGGCCAC TAAAACTTTT
GGTGCTGGGC ACATNACCCA CCCTCACCAN CATCAAAGAC A

SEQ ID NO:1436:   (Length of Sequence = 312 Nucleotides)
GGGAAAGGTA TATTAACCTT CTGCATCAAA GATGTAACGA TCATGGGGTC TTGGTGGCCA TCTGGTCTGA GTTAGGTACA
GGACAAGAAA GAGTCAATTA ATCTATAATA AAGATCAATG ATTGAAAGAA GGGAGATCTG GTCTCTGTCT CTCCTAGTCA
TTTACAGAAC AAGAGCAATG AGGAAGACCG TTATGCTATA ATCTAAGNAA CAGAATTGGA AATATGCTAC TGACTCAGTC
TCCAGGGGCT TAACTTCCCC CTTGGCATAA TAAATTTAAG GAGTCCTAAA ATTTTATTTT CCCTTACATT GG

SEQ ID NO:1437:   (Length of Sequence = 294 Nucleotides)
ATTCCAATGG TAATACTAAC GAATTGTGCT ATCTAAATAT TGGATAGTAA AAACGTCAAC ATTTAGAAAA TGTATATCAC
ACAGGGAACC AATATTTTNC AAATTATCCA CATCTAATAT TAGGCAACCA CGCGCAANAA AAGACACGTT CAAAGTACAG
GAGAAATGGA TGGATTTTAA TGTGAGATAG TACAAGANGT TTATTGATAT AGTTTCAAGA TTCCATATTG TAATAAACCT
TTAANGAAAC TTTCACTTCT TGAGTTTTGG GTATAGGAAT CCAAAAAAAA AAAA

SEQ ID NO:1438:   (Length of Sequence = 311 Nucleotides)
GGCCCTTTGA CTTTGTGAAT GAGCACAATG AAATGCCGCC TACTGATGCT TCTNATGATC AGAACTCTTT TTTAATAAAA
TAAATAACAT AAATCGTTGA ACATAATGTT CCNGTTGAAT GCAAANCAAA AAAAATATGG NAAACATTTT GNTAAAATTT
TTTCCNGNTA AAACCATGAA CANTGGCTAT GATGAAGGTT ATTACATATG GAAAAAAAAC TCACACAAGC ATATTTGNAT
TTGGCTTGAA GGGAACCCAT CATTAAATGC AANGCTAGGG ATTCTTTTNG AAGCAGTTGA TCCTCAGGTT T

SEQ ID NO:1439:   (Length of Sequence = 265 Nucleotides)
CGTGACACAG TTGAAGGAGT CGCTTAAAGA AGTCCAGCTG GAGAGAGATC AATATGCTGA ACAAATAAAA GGAGAGAGGG
CCCAGTGGCA GCAGAGGATG AGGAAAATNT CGCAGGAGGT TTGCACATTG AAGGAGGAGA AGAAGCATGA TACGCATCGG
GTAGAGGAGC TNGAGAGGAG CTTNTCCAGA CTCAAAAACC AGATGGCTNA GCCACTGCCC CCGGATGCCC CAGCAGTNTC
CTCTGAGGTG GAGCTNCAAG ACCTT

SEQ ID NO:1440:   (Length of Sequence = 241 Nucleotides)
GTTTTACTCT TGTGAAGATA GCACTTTAAT CCTAAATGAG CATGTAACGT GTGACAGATC CTATATCAGT TTTAATAATT
GAAGCAGATA GTAATAACTA GATTATTGAC ATTTTTGNGT CATGTGTTCA GCTATTGCTT CAAACTTGCT CAAATTATAC

340

TTGGNATTTT ATAGTGTTTT ATTTATTATA TACTCTNCTT GTAATAANNT GGTAATCTAG TTTCCAGAAT CATGCAAATA
G

SEQ ID NO:1441:   (Length of Sequence = 247 Nucleotides)
GACCCCGATA TTCCGGCATC ACATAGATAT CCTCCAGATA AANGGTGCGT CCCTTCCATG TACTGTAGAT GAAATAGTAT
ATCCCATAGC CCACCACGCA GGGCCCCAGT AGCTTCCCGG GCGCTGGAAG AATCTCTGCT ACCAAACAGT GATAGAAAGG
ATTGTNTCCA AAGCCATCTG CTCTCAGGGC TTCTTCACTG ATAGGNGTTT TTTTCAAGNA ATAATCCATG CTAAGAATGG
GGTATTT

SEQ ID NO:1442:   (Length of Sequence = 233 Nucleotides)
GATTACAGCC AAGTTCATGA ATACAAATAA AATAGCAATT TCCCTCATTC TCTCTTTTGT TTTCTGNTCA GAGAAATCAG
GAGATGGGAG CATTATGCTC AGAAACCGAA GAGCTCTTCC AAGAGCTCCA GCTTAGAGTC CAGGCTTCCA GAGCATGCAG
CCTCCTAACA CGTATGTGGT CACATGTGCA AAGACCTNTA TTACAAAATA TTCAGAGCAG NATTTCTNTT AGG

SEQ ID NO:1443:   (Length of Sequence = 288 Nucleotides)
AATAAACAAT GTGCAGGTTT TTATAACTGA TCGGAAGAAG GTTGACCCNC AGTTATCACC TTTAAAAAAT GGTCTTAGTT
AGGCTTTCTC CCTTTGTCCT TTTCCAGAAG AAACTTGGAG TCTGTCAAAT TTCACAAAAT ACCCTGTTGA GATTTTCCTT
GGCTTTG.TA AGGGTGAATT CACAGATTAA TTCGGAAAAG AATTTACGGC TTTCTAATCA AATTGTTCCT TCCAGGGGNT
TTTGTGNTTA TTTAGGNCCT TCTAAAGGTT AACCCTAACT TTGATTAT

SEQ ID NO:1444:   (Length of Sequence = 208 Nucleotides)
GGAACTGAGT CACAGGGCCA AAGCCCCCTT TNCCTCACGT GAAGCAACTC AGTAAGATGG CGGTGCAGTG AAGCCTATTC
CCACACACCT CGGCACTGAT GGAGCAGTCT CCAAAGGAAG GCTGAAAGGA CAGCAGGTGG TTGCCTTNGG GTCCTTCCTT
CCCATANCTT TAGAGTGCCA TTTTTCAGCA ATGGGTAATA GCATCAAC

SEQ ID NO:1445:   (Length of Sequence = 239 Nucleotides)
CCCCGGTCTC TNGGACACCA TTTTCTGCCG CTGGACGCAA GGGTTTGTGT TTAGAGAATC AGAGGGATCT GCATTAGAAC
AGTTTGAAGG TGGCCCCTGT NCTGTTATTG CACCTGTNCA GGCATTTCTT TTGAAGAAGC TCCTGTTTTC TTCGGAGAAG
TCTTCTTNGC GGGATTTTTC AGAGGANGAG CAGAAGGNAC TCCTTTGTCA TACCTTGTGT GATATTTTAG AAAGTGCTT

SEQ ID NO:1446:   (Length of Sequence = 243 Nucleotides)
TGCAGGGAAT TTNTTGATGC AAAACCAGGA AACAATTTAT CTCCACTGGG AATACTTTGA AGAAGGGATT AGAGCGGGGC
TAGGGCAGGG AGGATCTNTA AAAAACAATA TTTGCCAAAC TAAAAACACA TAGGCACACA TGGGNATTAT TTTACTTTCA
ACAAGTTCTG AAAGTAGTAA CAAAACCAGG GAGAGTTAAA AGAATAATTT AACACTNAVG NTTCAGGAAT GCTAAAGGAG
ACC

SEQ ID NO:1447:   (Length of Sequence = 371 Nucleotides)
AGTTATAAAT GAACATCTGT TGCCTACTTA ATAGGTCATT GAGTAGCTGT GACCCATTCT TAATTTGTAT GTAAGCATAT
TTTTACATA TTTGTATCTA CTTCATTTTC CCTTGAAGCT TGCCAAATTG GTACACTTCA GTTTGAACTG ATGTCTCTTA
TATGCTGTAC CACCTTCTTA AAAATTGAAT TATCTTTCCT TCCACCTAGA TTGTTCTCAA AGCATTTGTT TTTGCTGGAC
TTTCCACTCT TGACCATAAG ATGGTAGCAT TCCCTAAGGA TATTGCAGCA CAGTCTAATT CCACTGGTTG TCATCTACAG
TTAAATCGCA AATAAAAAAT AATAATAAGC AGCAACTGAT TGCTCAAGTT G

SEQ ID NO:1448:   (Length of Sequence = 366 Nucleotides)
AATTTTGTGT CCTGTAGGAA ATGCTTCCTT GGGTGTTTGT ATTATAGCCC AATCCAAGTC ATCCCTGAGA ACATCCCCAG
GTTGTAAGGA TTAGTCAGAA GTCATGATGA CTGTCCTATA TAAATATTTG GCCTATTAAC TAAAATTAGT ACCTTNCCAT
TTCTCCNCTT TCTTGGGCGG GGCAGCGGGG GAGTGCAGGG GAGGGGAAAT AGGGAACGTN CAATTGTNTT TTAAGTAATG
CTCATAAAAT TCTTAGNCAA AGATGATCTT GCCCTCCACC TTGGTGACCC ACCGCATACG GGGTACATCT ATCTGGCCTG
TCTCTAGGCC TAGACAGAAG GAACAGGGAG GGTTATTGTT AACTTT

SEQ ID NO:1449:   (Length of Sequence = 234 Nucleotides)
GTTGTGGGAG GGACCCGGTG GGAGGTAACT GAATCATAGG AGCAGTTTCC CCCATGCAGC TGTCGNGATA GTNAGTTTCT
CATGAGATCT GCTGGTTTTA TAAGCTTCTA GTGTTTCCCC TGCTGGCACT CATTCTCTCT CCTGCCACCC TGTGAAGAGG
TGCCTTCTGC CATGATTGTA AGTTTCCTGA GGCTTNCCCA GCCATGCAAA ACTGTGAGTC AATTAAACCT CTTT

SEQ ID NO:1450:   (Length of Sequence = 220 Nucleotides)
GCTTTTNCTC TCCCTGTTTT GTTTTGTAAC CTAAGGAAGC AGAGCCTCTG AGACCACACA CAGCAGCGTC GCCCGTCCCC
AGAGGCACCC CGGCCAGGAC GGGCAGGAGA GGAGACCCCC GTTCCTGCAT GCNCTGTCGC CCCGCCACGG TGNTCTCCGC
AGGGTGAGGC AGGAGGGTGG GTGGAGGCGC CACTGNTCCT CAGCTGGAAG GGCGGGGCAT

SEQ ID NO:1451:   (Length of Sequence = 403 Nucleotides)
CCGCTGTTCA CCTACGGCCT GATTAAACTT GCCTTCCTGT CCTCCAAGAC CAGATGATGA TTATTCTCCA CCGTCTAAGA
GACCAAAGGC CAATGAGCTA CCGCAGCCAC CAGTCCCGGA ACCCGCCAAT GCTGGGAAGC GGAAAGTGAG GGAGTTCAAC
TTCGAGAAAT GGAATGCTCG CATCACTGAT CTACGTAAAC AAGTTGAAGA ATTGTTTGAA AGGAAATATG CTCAAGCCAT
AAAAGCCAAA GGTCCGGTGA CGATCCCGTA CCCTCTTTTC TAGTCTCATG TTGAAGATCT TTATGTAGAA GGACTTCCTG
AAGGAATTCC TTTTAGAAGG CCATCTACTT ACGGAATTCC TCGNCTGGAG AGGATATTAC TTGCAAAGGG AAAGGATTCG
TTT

SEQ ID NO:1452:   (Length of Sequence = 353 Nucleotides)
TGCCTAGAGA GGGGCCGGGA TTTAGAGAGC TGTTCTTCTG CCTATCTGAT CGCCTCCTCA GACACTGATC TATTAGTCTA
GTGCTGCAAT TACTTGGATT GTAATGTTTC CTTGCAATTT TTGCTTTTCA AATTCTTTTC ACCCTAAACT GTAAATACGC
CAGGAGTAGG TAAAAACTTA CAGGTAAACA TTGCCAAGAN ATAAGGATTT TNATGTCTTC TGCTCAGTGG CATAACTCAA
ATCACATGAG ATAGATTTCT TTGCATCTGT CCATTGTATT TCTCTGAGGC TAATTTACAG CACTTTGTCA CGTTAGGNAT
TTTTTTTCCC CAGTGCTGCT ACTCTCCAAC TGG

SEQ ID NO:1453:   (Length of Sequence = 258 Nucleotides)
GTTGCCCCTN CTGTCTTTCT GTNACCCAGA GAAAGCTTCA CAAGCATGCC TGNAATTNAG TTGCACCATT TTATTACAGC
TGAAAGANTT GANTGTAAAG AAGGAAGTTT AATAGANCAT ATAATNCAGC AGATTTATTG ATGGGGAGGT ATCTATTGTA
GTTTGGCCAG TGAAGGCAGG TCATAGAGGA AAAATTTAGGT AAGTCGGATT TNCTTTAAAA AGAGGCCCAA GAGTTAGTAC
CTCAGGATTT TGTTTTCT

SEQ ID NO:1454:   (Length of Sequence = 328 Nucleotides)
GAGATGGAGT CTTGCTCTGT CGCCCAGGCT GGGGTGCAGT GGCGCGATCT CTGCTCACTG CAAGCCCCGC CTCCCAGGTT
CACGCCATTC TCCTGCCTCA GCCTCCCGAG TAGCTGGGAC TACAGGCGCC TGGCACCACG NCCAGCTAAT TTTTTGTATT

342

TTTGGTGGAG ACGGGGTTTC ACCGTGTTAG CCAGGATGGT CTCGATCTCC CGACCTCATG ACCTGCCCGC CTCGGNCTCC
CAAATTGCTG GGATTACAGG CGTNACAACC GCGCCCGGCC GGTAGCAATA GTTTTAATTA AGGTCTTAAA ATCATACAAA
AAGGAATT

SEQ ID NO:1455:   (Length of Sequence = 342 Nucleotides)
AATTTAGGTA GATTAGCATT CCCATGTAAC TTACCAGAAT CAGAATGAGA ATTCAGAAGT CACCTGANTT GGCCGGGCAT
GGTGGCTCAC ACCTGTAATC CCAGCACCTT GGGAGGCCAA GGCAGGCAGA TCATCTGAGG TCAGGAGTTC GAGACCAGCC
TGGCCAACAT AGTGAAATCC CGCCCCTACT AAAAATACAA AAAATTAGCC AGGCACCCTG TCCACAGCCC CCACACAGAC
TCGAGGGGCC CCCATCTCCT GTTCTGAACC CAACAGGGTG GTCCCACTNT GGGACCACAA ACCAGGTATG ACTGTTTNAG
AAGCAGGCTC ACTACCAGGN TA

SEQ ID NO:1456:   (Length of Sequence = 296 Nucleotides)
ATCTTTGACC TATTAGGTGA ACAAATGAAC CTCACAGGAC ACACAGTATT TTTTAAAGGC AGACTCGCTC TCTTTTTTGC
CAGTNAGCAG TTCTAGCTAA CCAAGTTACA CACTGTGGGT ATTCCTGCCT GCCTCTTGAA TACAAAGGCC TAGTTCAAGT
GTTGCTTTTT TNATTTCAAA TCAATTTTTT CTTCTTTCCT TTTTGAGATA AAACTATTAA AAGTACTACT ATATATATAA
AANCTCAAAT CAACTTTTCG GCCTCCTCCT CGTGTACCAG GGAGTATATT CTGACG

SEQ ID NO:1457:   (Length of Sequence = 314 Nucleotides)
GAGGATTCAT AAGTAGAATT TATAAAGAAC TCCAAAGAAT CAATAACAAA AAGACTGGCT ATGGCCTTCG NAGAGCAGCT
GCTGTCCTGG AAATCAGAGG ACAGTGAAGG GAAGTCCGAA GATGAGCCTG ACACCATTCC GACATCCGTC CTCCTGCAGG
TGGTGGAGCT GCTAGGAAAC TTCTTNTGGA CCACGGACAT GGCAGCCTGC NTGAAGGAGC TTGTTTTCCA TCTCCTGGCA
GAGCTCCTAC GCACGGTGCA CACCCTGGAG CAGAGGCGGC ACCCCGCTGG CCTGTNCTCC TCANTCGCCC TCCA

SEQ ID NO:1458:   (Length of Sequence = 254 Nucleotides)
GTTCCAGTCA CAGATGTTTC ATTATCACTA TTCAATATTA TTAAGCATCT AATAAGTATA AGGATGCATG AGTCAAGGGT
CCCTACCTTC AGGTCGGAAG CAGGAAAGAG ACCAGATCCT AGAACAATAG GACATGGTAC CCGCTGCCTA GACGGAATTT
AGAATCCGGC TGGGGTGAAG AGATTAATGA GCGAGTCATG CCATCAATGT GCTGTAACTG AGGTCCTAAA AACCACCCAG
CCGCGACACA AACT

SEQ ID NO:1459:   (Length of Sequence = 343 Nucleotides)
AGAAAGGCTC AGGGATTAAG TAAAAAGGCT AGTACATCTG GGCTCCATTC CATTATTTAG TCATCCAAAA GAAGTGAAGT
GGAGGATAGT GAGCATCTAG TATATGCCAG GCACTAGACT GGCTGCAGAG GATTCAGAGA TACAAAAAAC ACACTTGTGA
CCAATTTAAT TTGAATTTAC CAAGTTGAAT GGCAAAAATA TCTTAAAAAT TTAGATGCCT TGATAAATGT AGTGGTATAT
TATGATAGCC ATTCTATGCC TTGAGATACC GTGTATTCTA TATTGTATAG TTGAGGGATT GAGGCCAGTT GGGAGGAATA
AATTATAGCT TGTGCTTATC AGG

SEQ ID NO:1460:   (Length of Sequence = 348 Nucleotides)
ATTGTCAACA GTGTTTTTAT TTATACCTAC AAAAAGAAAA CAAGATGATG GTATCAAAAG GACAATTTAC AAAACTAAGAA
TAGTAACATA GCTTTCAGCA TCCTGTGCCT GANCATCACA CATCTACAAG TCTTTCAAGT CTTAATGCAA CAGGAATGTN
TCTGGAGACC NGCAAGAACA TCAATAGAGA GCACTGATCC CAAGCAAAAG CCACTAACCT TTTACATCAG AAGTCCNCAC
AACGNATTGT TAGGGAGGAT TTGGGAGAAG CAGCCCCTTT GCTTAATACA TTNGGACCCC TTTCCCCTAA GTTGAGGTTC
AACCCTTGAA TGCAATAACT TGGCATAA

343

SEQ ID NO:1461:   (Length of Sequence = 343 Nucleotides)
TGGGAAGATC AGGTCTTACT TGTTTTTCTG TCCCCTCCAG CGCTAGATCA ACACAGTGTT AAATTAGTTG AATTTCAGTG
GAGGAGATAA GACAGAAATG AAATCTGTGA AGATTCAGAC TTTCCCAAGT TAAAACCAGT CTTGAGTTAC AGATCAAGAT
GATGCCAGAA ATAACATCAC ACTGAAACAT CAGTCAAATG TAGTCATCAT GGCAAAGGCC AAATGTCCCT TTCTTTTTTT
GCCTCCGCCT GCCTGGGAAT TTAGCATCCC CTAAAGCCAC TCATCTGGGA CAGGATTTTA GGGTGTGTAC ATGTTTTTCA
ATCTCCACAG GACCCAGCTG TGT

SEQ ID NO:1462:   (Length of Sequence = 335 Nucleotides)
GGCATGGAGC AGGCAATGAC TTGTTCATAG TCGCTGCAGT TATGAGCACC AGCTTGAACT TAGGAACTCT TATAAATTTC
TGTTTTCAAC CAAGTATTGA GTGTCTGCTA TGTGTCAGAC ACTGCGCTAG GTGCTGAAAT CTCACTTCTA CTGAGGAAGA
CAGGAACATA AATGGTGATG ATCATTGCAT TAGAAGTGAT GCCACGGGAA TAGTGTGGGG CCTCTCCAGG GGGATCTNAA
GGTAGGGAGA CCACACTTCT CCAGTGGTGG AGAGGGCAGA CAGCGTGTAT NGGGTCCTCA AGGTCTNATT GCAAAGGTCA
TGTTTTAGCT GTTCA

SEQ ID NO:1463:   (Length of Sequence = 382 Nucleotides)
GGACCGCTTT CGGTTCCTCA GGATAAACAC GAGCATGCCC ACCACGGTGA AGGCGGAGGT GACAAACACC AGCAGCAGTC
CCGGGACCAA CACCGAGATG GACACCCTGC TGGTGTCTAG GTAGGAGTTG GAGTGCGTCC CGGTCTCCGC CAACCCAGTG
CTGTTTTTAC TGTGCGAAGT TAACGTGGGC GAGATCCTAG CGTACAGCTG AGGGCAGATC TCGTCATTGG AGAGGAGCAT
GAAATCCTTT CTAAAGAAGT TCACCGGCGT CTCACACTTN AGGTCGCTCA TCAGCACTTC GGAACCCAAG CNTTCTGNCC
ACTTGCTTGA AAGGCACAAT TGTNCAGGAG CACTNCCAGG GGTTTCCGTG GAGGGTCTAT CT

SEQ ID NO:1464:   (Length of Sequence = 187 Nucleotides)
AANGACCTCA TTTCAAAGAA GAGCCGTCTC CTGACAAGGG ACGTTTCCCA GAGAGGAGAC GTGTTAGTGC AACAAAGACC
AGGCCCTGGN AGCCACGAAA GCCCTCCAGA TGCCTTGAGG ACGCCGTCTN TAGCCGNGTG GGCCACGNCC GGGTGGGGAC
AGACAATGAC AAGAGGCAAG ACAGCCG

SEQ ID NO:1465:   (Length of Sequence = 276 Nucleotides)
TTTACACAAT CAGTATAATA CTGATAGGAA AACTTGACTG AGTTCAGAAA ANGAAAACGA AGTAGAGATC TCACTTGCAT
CAGAACAAAA TGTCAATCTA TTAGCAGATA ATATTCATCA GTATTTTTTG AAAATACAAT ACCACANGAA AGAAACAGTG
GACATTTGGA GGGCTTTGAG GCCTGTGGTG GAAAAGGAAT TATCTNCCCG TAAAANCTAG ATAGAAGCAT TCTCAGANAC
TTGTTTGTNA TGTGTGCCCT CTACTGACAG AGTTGA

SEQ ID NO:1466:   (Length of Sequence = 375 Nucleotides)
GGGGTTTNAC CATGTTNCCC AGGCTGGGCT CAAGTGATCC ACCCTCCTTG GCTTCTCAAA GTGCTGGGAC TACAGGTGTG
AGCCACTGTG CCTGGCTGGT TTTTNTTTTT TNAATGAACA TGTTGCAAAT CACGCAGAGC ACCTNTNATT CTGCATTTNC
TGGGTTATAA CAAACATTGT CATCTCTGCC TACATTTAAA AGGCTCTGGT GTTATTTTAA TATGTCTTTT CAATTTAGTA
ATTAATTCTA ATTTTCCTTT GAGCTGAGAT GTTATTCATT GTTCTCCTAG AGTTGCTTTT ATTTGTTCAT ATATGTTTCC
CTTAGCATGT TTTTCGTATC TCTTAGTTAT TAGATACCTG AACATTTGAC ATTGG

SEQ ID NO:1467:   (Length of Sequence = 319 Nucleotides)

TGATAAAAGG AAAACGTTTT GATTTATAGT ACCAAGTGCT TAAACACAAG GATAGTGTTA GATTTTCGAG TGACTTTCCT
TTTTGCATTT TTTGGCAGTA AAAGCCAAAC GTTGTATTTG TCCTTTTCAG AGTTGTCCAG CCCTTTTTTC CTTTGTCCAA
AATGATTCTA AATAGAATCT AATAAACCAA TGTAGCATTA TTTTTTTCTA AATGAAGCCC CAAAAAAGAA AAGTGCCTTG
CATCATTTAA AAAAAATAAT TAAATCCTCA TGGCCTCTAA ATTAGGTATG TAGGGCACTG AAAAGTTCTT AACATTTTT

SEQ ID NO:1468: (Length of Sequence = 352 Nucleotides)
TTTGGTTAAC ATTCCAAACA TGTATAACCA ATTAACATGG CCTAGGGTTT TCTTTTTATT GGTATTCACT TCAGTAACTT
GAATCCACAG ATATAAGCAG TATATAACCA GAAAGTTACA AGTAAACACA AATTATACAT GCAAATTTCT GTTCACAAAG
GTCACATGTG CAGGTACATG ANTTAGAAGC GTGCATCTAG GATTATGGCC AAACTGTTTT AAAAATGCAG AAATGTAAAA
TTACATCTTG AAAATATGAA GAGATGGTCT ACACACTTCA AAAATCAAAT GTTGCTTATA CCAGAGATGT ATGTCAATCA
CGGGNTTCAA GTGACAAGCA GTAAGGATCC TC

SEQ ID NO:1469: (Length of Sequence = 427 Nucleotides)
GAGATGGAGT CTTGCTCTGT NACCCAGGCT AGAGTGCAGT GGCGAGATCT CGGCTTACTG CAACCTCCGC CTCCTGGGTT
CAAGTGATTC CCCTGCCTCA GCCTCCCAAG TAGCTGGGAT TACAGGCGCC TGNCACCGCA CCCAGCTAAT TTTTGTATTT
TNAGTAGAGA CGGGGCTTTA TCATCTTGGC CAGGCTGGCC TCCAACTCCT GACCATGTGA TTCACCTGCC TCCACCTCCC
AAAGTGCTGG AATTACAGGT GTGAGTCACC ACACCCGGCC GGATTCTGTT AGTTTTCTTT AATGCATATT GAGTTTCTTT
AGTTTTAACA   CACTTAT CTTGGTTGGA CCCAAACTAT TCACTATGTT TCTTGGGGGA NAGCTTNGAA TCTTGGGGTG
GNAGCCAATT   TGTAATAGC CAGGGTG

SEQ ID NO:1470: (Length of Sequence = 426 Nucleotides)
AGGAGTTTGA GACCATCCTG GGCAACANAG GAAAACCCCG TCTCTACAAA AAGAAAATTT GGTTTTNATA TTTATTTGTA
TTAAATTTTT TAGAAACATA GCTGGGCATG GTGGCACACG CCTGTAGTCC TAGCTACTCA GGGGGCTGAG GTGGGAGGAT
TGCTTGAGCC CAGGAAGTTG AGGCTGCATT AAGTGTTGAT CACACCACTG TNCTGCAGCC TGGGTGACAG AGTGAGACCC
TGCGACTCCA GACAGGTGCA CACCACCACA CTCAGCTAAT TTTTTGTAGA AATGAGGTCT CACTATGTTG CCCAGGTTGG
TCTTGAACTC CCGGGCTCAA GTGATCCACC TGTCTCAGCC TCTCAAAGTG CTGGGATTAC AGGCATGAGT CACAGTGCCT
GGGCCCAAAT TCATAGTCCT AAACAT

SEQ ID NO:1471: (Length of Sequence = 372 Nucleotides)
AGAATATTAA AAAAGACCAG ACGCTTAAAG CAAGANTTGA AATACCTAGT TGTAAAGATG TGGCACCTGT GGAGAAGACT
ATTAAGTTGC TTCCCAGTAG CCATGTTGCA AGACTACAAA TATTCAGTGT AGAAGGACAA AAGGCAATTC AGATCAAACA
TCAGGATGAG GTTAATTGGA TAGCGGGTGA TATTATGCAT AANCTTATTT TTCAAATGTA TGATGAAGGA GAAAGAGAAA
TCAATATAAC ATCAGCTTTA GCAGAAAAAA TTAAAGTTAA TTGGACTCCT NAGGTTAACA AGAACACTT GCTACAGGGT
CTGCTTCCTG ATGTGCAAGT ACCNACATCT GTAAAGATA TNCGCTATTT CC

SEQ ID NO:1472: (Length of Sequence = 332 Nucleotides)
GGTAGAGACA GGGTCTCACC CTGTTGCTCA GGCTGGTCTC AAACTCCTGG GCTCAAGCNA TCCTTTCACC TTGGCCTTCC
AAAGTNCTAG AACTGGCCAG GGGTGGTGGC TCATGCCTGT AATCCCAGCA CTTTNGGAGG CAGAGGCGGG CAGGGAGTTT
AAGACCAGCC TGGCCAACAC GGTGAACCCA CTCTCCACCA AAANTACAAA ATTTAGCTGG ATGTGGTGGT GGGCGCCTCT
AATCCCAGCC ACTCAGGAGG CTGAGGCAGG AGANTCACTT GANCCCGGGA GGCGGAGGTT GCAATGAGCA GACACGGCCT
GGACGACAGA GT

345

SEQ ID NO:1473: (Length of Sequence = 434 Nucleotides)
GCCTTTAATT TGGTTTTNCT ATGCCAGTAC AGAAACATCT GGACAACACT CTTGAGCCTG CAGAGGCTCA CGGCCACACC
CACTTCTGCC GCAGGACTGT CTGTTGAGGA GCCGAACCGA TGAGGCACAG TAGCCAGGCC CTCCCGAGGG CTCCAGAAGC
TCTAGGTTTA CGGGGTCACC TTCTTGTAGG TGACGTGAAG ATGCTGAGTC ATTGGCTGTN TCGTGGTTGC CATGGAGACC
GTCTGCTCAA GTTTGCCTTC AGAATTCAGC CTGAACTTCC GGGTGATCTG CTCTACGTGG GGCTCCTTGG CGAAGGAGAT
CCTGGCGATG GAGTGGGATG CGATGCACAG NTCCTGCCCG TTCAACTCGC CCTCCTNCAC TTTCCANCAC GGCTGTTTTC
TTGGCGTGAC AAAAGGCCAC CTTTTTGGTG TCGG

SEQ ID NO:1474: (Length of Sequence = 402 Nucleotides)
GACGTTNAGG TGGGAGGTTC GTTTGAGCAA CATAGTGAGA CCCCGTCTCT ACACAAAAAC AAAAAAAATA AAAAATTATC
TGAGCATAGT GGAGCATGGC TATGGTCCAA GCTACGTGGG AGGCTGAGGT GGGAGGATTG CTTGCNTCCA GGAGTTCAAG
GCTGCAGTAA GCAGTAATGG TGCTACTTCG CTTCAGCCTG GGCGACAGAG CAAGACCCTG TCTCGAAAAA ATAAATAAAG
TAAATAAAGT TGAGAATTTT GTATTTTGGT ACAGAAGGTC TATGCCTTTN AAATGCTCCA TTTGGACACG CTTAGGGCAG
GACGCTCTGA AACTGGGAAG CCTGGGGCCC TGTACANTCT TGGCTGTCCC CTGTACANTC TCCTAACTCT AGAGGGCTGG
TT

SEQ ID NO:1475: (Length of Sequence = 324 Nucleotides)
TTGCATACCT GTGCTGTGTC AGACCAGGCA GAGTCATCTC ATTCCACTGG TCTAATGGAT GGCAATTGAA TTTAATTAAC
AAAACTCCTT TGACTTAGTT TCATACTGTG CTGAATGTAA TGGAATCCTC TCTGCCCCCC TTATCTCTCT CTCTTTCACT
CTCTCTCAAC TAAAAATTGT CCTTAACTAA CATCCACTTT AAGAATATTA AAGGCTATAC ATTATACTTA AAAGATACAA
TACAGTCATC CCCCTTTCCA TGACTTAAAT TGTATAACAT AAAATAATTA AAAAGNTACT TTGGATAGTG ATACACAGTA
TAGG

SEQ ID NO:1476: (Length of Sequence = 244 Nucleotides)
GAAAAACCAG AAACTCAAAA TCAGAGTGCC TCTCCTCCTC CAAAGGAACA CAGCTCCTCA CCAGCAACGG NACAAAGCTG
GACAGAGAAT GACTTTGACA AATTGAGAGA GGAAGGCTTC AGAAGATCAA ACTACTCTGA GCTAAAGGAG GAAGTTCGAA
CCNATGGCAA AGAAGTTAAA AACTTTGAAA AAAAATTNGA CGGATNGATA ACTAGNATAA CCGATGCAGA GAAGTCCTTA
AAGG

SEQ ID NO:1477: (Length of Sequence = 338 Nucleotides)
ACAACACATA CTTGAAACTG ATTATGACTG TNTTTGAATG CATTTTGATT CCTTAGCTAT GCCTCTCAGG TGAAAGGACC
AATGGCAAGA GGAAGCAGAG GATTCATGCA CTAGAAAATA CTGAGAGAGA TCAGAGTATT CTGTCTACTT CACTGAAGAT
ATGGTCTATT GAGGGAAAAC TAATTAACAG TTGATCCAAG GAACAAAAGA ATGCTGTTAT GTGACATTTT GTTGGGAAAC
TGACTGTAAT AATAATAAAN CAAATGTCCA GAGGAATGTG TCACATAATT NCAGTGTTTA TGGTTGATAA TTCAAAGGCA
TAGATGAATT GGGATTCT

SEQ ID NO:1478: (Length of Sequence = 397 Nucleotides)
ACCCTTTCCC ATTCTGATAA TCTGGCCATG ACTAGCAGAA GCACAGCTAG GCCCAATGGG CAACCCCAGG CCAGCAAAAT
TTCCCAGTTC AAATTGGTCC TGCTGGGAGA ATCTGCAGTG GGAAAGTCAA GCCTGGTANT ACTTTTGTC AAAGGGCAGT
TCCATGAGTA CCAGGAGAGC ACCATTGGAG CGGCCTTCCT CACCCAGTCC GTTTGTNTAG ATGACACAAC AGTGAACTTT
GAGATCTGGG ACACAGCTGG GCAGGAGCGA TATCACAGCT TAGCCCCCAT GGTACTACAG GGGTGCCCAA GCTNCAATCG

346

TGGGTTTACG ACATTACTAA TCAGGGAAAC CTTTTGCCCG AGCAAAGACA TGGGGTGAAG GGACTACAGC GACAGGC

SEQ ID NO:1479: (Length of Sequence = 389 Nucleotides)
GCTAGAGNGC CGGCTTGCGG GGTTGAGTGG CCCGAGCTAA GGGTGCGGAG ACCCAAGGGC GGCGACTACG ACGGCGTTGA
TATCGGTGGT AACGACGGCC TCAGCAGGCG GGGAAGATGA AAGGCCGGNT CGAGCTGGGA GATGTGACAC CACACAATAT
TAANCAGTTG AAAAGATTGA NTCAGGTCAT CTTTCCAGTC AGCTACAATG ACAAGTTCTA CAAGGATGTN CTGGAGGTTG
GCGAGCTAGC AAAACTTGCC TATTTCAATG ATATTNCTGT AGGTGCAGTA TGCTGTAGGG TGGATCATTC ACAGAATCAG
AAGAGACTTT ACATCATGGA CACTAGGGAT GTNTGGGCAC CTTACCGAAG CTAGGAATAG GGACTAAAT

SEQ ID NO:1480: (Length of Sequence = 384 Nucleotides)
CTGAGAGCCA GGAGCTCTTG CGGAGAAGCC ACTGTCTGCA CGCCACCTGC TTCGATGACC CTGCTCTGCC ATCCCTGTGC
TCCAAGGGCC GGGCCCTGCC GTTGCCTGTG CCAGACGGGT CTCAGGGAGA TGCCGGCCAG CAGGTATGCA TGGCGAGGCC
TGGGCATCAA GGCCCGGATT CTATGGCTGC CAGTTTCATT CTCTCGTTGT TTGTCCCCCT AGCAAGACTT ATGAGGTTCC
TTGAGGACAA GACTCCCTCC TGCCACCTGG TCTGTTTCCT GAACATTCAC TGCACTAGCA CGGNCCCGGG ACGCAGNCCT
TGGGAATCAG GCCGTCGGCC ATGGTAGAGC GGCTNGCACT GCTCGGCACC GTGACGGACG TTTG

SEQ ID NO:1481: (Length of Sequence = 257 Nucleotides)
ATGTCTAGAG CTATTCTGTT TTCCCAAGCC ATTTGGCTAG TAGGCCCTAA TTGGTCAGTG GGTTCTGACC CCCCAATCCC
TACCTCAGCA GCAGGAAAGG GAAGTGCTGG TCTCCACCTG TNCCCACTAA GGCCCCGTGG TATCCTGGCA GAAGCCTCTG
CATGTATCTN CGCTCTGAGG ATGGGGGTTT NAAAACAAAA TAAGACCCTA CGTCCTACTA CCTTGAGCTT GGCTCTAAAA
CCACGGGAAA GGAAGAG

SEQ ID NO:1482: (Length of Sequence = 345 Nucleotides)
AATTGAGCTC AGACTAAAGG AATTCTTTTT TGACTAAATA GTGATTAAGT TATGATATTC CTGTTGGCCT AAGAACAATG
CCTATGATTT AGTTGTGTTA TGTATATTTG TACTTATAAC CAAACAATCG ATTGGGTACA AGTAGCCTTA GGGCAATACT
TCCTTAAAAA CATGTTTCTG ATAAACTAAA GCTTTAGCAT TAACCAGAAG TCATAATTTA ATAGTATTGT AAAAAATACCT
CATTTATTTT AAATCCTGTG TTGGGGTAGA GGATTACAGT TGTCATTTCA AATACATGAA TCTCTTGTCA AAAGNGGTAC
TTTGACAGTT TCATGGAGG TCAGG

SEQ ID NO:1483: (Length of Sequence = 344 Nucleotides)
CTGATGTACT GTTTTAATAT GCTGAGTACT GTTGATTCAA CAACAAACCT TAATGGGTGA TGAGCTTTTG CATACCAATA
TGAATTTNTC AGCACTTCTG AAAACTGGCC ATCATTTTNC AAATTCACAA TTTGCTGGAT GTCAGGGAAC AATAGGAAGA
AGAATGAGCG TCAATTTTCA TGTCTTCCTT TGCTTCTTCA CTGGCCTTCC ATAGAAGTAG TCAGAAAAAA ACAAAGCACC
ATCAACCACA CTTCACAAAC AATTCATGTT GGCCTAAGCT TTGCTCAACA TTCATATGAC AGAAGGTAGN ATAATGAAAA
GGGACTGCTG GGCATCACTT TCCC

SEQ ID NO:1484: (Length of Sequence = 380 Nucleotides)
TTCCTAAAAG CAGTCTTTCC TACAACTTGT ATGCAGTAAG TCACTTAAGC ACTTAAGTGT CATATGGGTA CTTACATGGA
ATTAGAGCAC TTCCTGAATG GAATTAGAAA AAGGCAAATT GTGCATACTA CTGATGCATT CATTTCCTAC AGAGATATGA
TACCAAGGGC CAATAAGTGA ATAGAAAAAG GGAGGAGGAT TTATTAATGG AATGAGTTCT AACCCTGTCT CTTACCAGCC
ATATGACTTT GGGNTAAATA ATCAAACGCC CAATGAGCTC AACTGTCTAT TATTAGGGGA ATTTAAATGA GAGAATGCAC
ATTAATTATG CATTGCAGAG TACATGGGAA AATAGTAAAA GCTTAATATT TAATACGGTC

347

<u>SEQ ID NO:1485:</u> (Length of Sequence = 334 Nucleotides)
GAAGGAGCGG GGAACCAGTT TCTCACTCTC CTCCCACTTG CTATTGTCAG AAGAGCGAGA TTTCAGGGCA GCAGAGAGCA
TCAGGAGATC AAAAGAAGAC ACTGCTGGGT GGTCCCTTAG CAAGTTTTAG CTTCTTTNCC TGCTGGGAGA GTATTCCTTG
GGCACAGTGC CAAGTGTCTC TAAGAAACTA GTCATGCCTG ANCTTAAGGG CTCGCGGATT CTGGGTGGTG GATTTCCTTA
GGCTTGTCTG AGCCTGCCAG TGCTCTCCTC TGTCGCTCTG ATTTCCATTC ACGCTGAGCA GTCTGCACTN CCTTGGACAG
ACCCACTGGC ATTT

<u>SEQ ID NO:1486:</u> (Length of Sequence = 164 Nucleotides)
CTGAAACGGA AAGATGGCGC TGCTGTNCTT CTAAGCCTAG GCTTCTTGCA CTAAAGCACC AAGGGCATCG CACACAGGCT
TGGCAGAGGG GCCATGGCCA GANTCACCAC CTTCAGACAA GTATGTTGGA GGTCTCGAAT CCCTTGGCAC CCCCAAGCAT
GCAG

<u>SEQ ID NO:1487:</u> (Length of Sequence = 298 Nucleotides)
TTGAACCCAG GGGGCAGAGA TTGCAGTGAG CCGAGATCGT NCTGCTGTAC TCCAGCCTGG GCAACAGAGC GAGACTCCAT
TTCAAAAACG AGAACCCAGA GGGCTCACTT GCCCCTTCCA CCACACAGTG AGAAGGCACC ATCTATGAGC CAGGAAGCGG
GCCCTCACCT AACAGGATCT NCTGGGCCTT GACCCAGGNC TTTACAACTT CTAGANCCAT GAAAAATTTC TGTTGTTCCT
AGCAGNCCAA ACAGAATTAG AACCATTAAT TTCTATTTCT CCTTTAGCTT AACACTGG

<u>SEQ ID NO:1488:</u> (Length of Sequence = 343 Nucleotides)
TTGCTAGTTC AGGNTCAATG TCATGGCTGT AACTAATATA GTACATTCGG CAGTTGCAAC GCGAAATGAT CCGCTGGACT
TGCTGGGCTT GCTGTGCCTC ANCTGGCTGG TTCCAATCTG TGGTTGTGGT AACCATGCCG CCCACTGCCT GCCCACTCTC
CATCAGCTCC TGCACAGAGT CCAGACTACG CTGCCGGTGC TCGCTCTTTT GCCCAGGTTG AAGTGCAGTG GCGCAATCTC
AGCTCACTGC AACCTCCGCC TNCCGGGTTC AAGCAATTNT CCCCACCTCA GCCTTNCGAG TAGCTGGGAT GACAGGCGGC
CGCCACAACG GCCAACTAAT TTT

<u>SEQ ID NO:1489:</u> (Length of Sequence = 412 Nucleotides)
ATTACCTTTT TATAACCCAA GANTGCCATT ATTACACCCG GAACCCTCAC CAAATAAGTA GGAAAACTAC ACTGAGAACA
ATTCGGCCCA GCTGTCTCTG GCCCATTTCC CTTTCTACCG CCTCTTGTGC ATTCCAGCAA TCTAACTCGA TGAATGATCT
TCCAGTTGGA AAGATGGGGA CTTCACAATG TGCAGACCCA AAGATCTGTC TTCCAAAGGC CAATCACCAC TGTATCCTTC
GTTCCTTTAA ATGTCGTTGT TTATTTGAAT ATATTAAGGA ATAATATCAA GGGTAATTAT CTATGTATAA AATGTATGNT
TAATTTTTTA GGGGACCATC ATACTGTTTT TCCACAGTGG CTGTACATTT TACAATTCCC ACCAACAATG CACAGGGTTC
CATGGTTCCT AT

<u>SEQ ID NO:1490:</u> (Length of Sequence = 356 Nucleotides)
ATACCTTCTT TCATTTAAGC CACCCAGTCT ATGGTACTTG GTTATGGCAG CCTTAGCAAA CTAATACGGA TTCCTCATCA
GGTTCAGATT TTNCTAAATA AAATGTGTTT GTGAGGGTGG TACAAGCAAC AGTGATATAT TTCTTTAAGT ATTTTCCCCC
AGCCAAATTC CAACAAGACA ATAATGTCTA ATGCACTGTC TGGTGAATCG GAAAATCTCC TGAATGAAAT AAGAGCCTCT
AATACCCAAA AGGGAATGAA GTGAGTCATC ACCACAGCCT GTGAATGAAA ATAACTGCTC TGAGGAAAAC ACATGTAAAA
AATGACACCA TGTGGATTAA ATGYGGGNAC ACAAGT

<u>SEQ ID NO:1491:</u> (Length of Sequence = 335 Nucleotides)

TTCACTACCA AAACCAGTTA CAACAGTTCC AGCCAAATAA CACAGGCTAC CCCATATGCC ACGACACAGA TCTTGCATTC
CAACAGCATA CATGANTTGG CTGTCGGTCT GCCTGATCCN CAATGGAAAA GCTCAATTCA GCAAAAAACA GATCTGNTGG
GATTGGTTA TTCTCTACCT GATCAGAACA AAGGTAACAN TGCCTTACTT TACATTCCTG ACTACCGNTT GGCTGAGGGA
TTGTNTAATA GAATGCCACA NAACCAGTCT NAGGATTTTA GCANCCACCA GCTCTNACAA CAGCTCAGGA AGGAGTTGGC
AGTNTCTCAG GTGGG

SEQ ID NO:1492: (Length of Sequence = 321 Nucleotides)
GACTTCATAA AACATCCTTT ACTATATTTT NAAAGAAAGC AGAAGTAACA GCAATATATG TAAAAGTAAT GNTTTAATGN
CTATAAGCAA GNCAAAGCAA TAGAATTGTG CTTCTTTTGC AGACTGGGGN CAATGAAATG TTTAGCTACA ATTTNCCCAT
ACAAACATGA AACAATATTC ATATAGNNTA ANCACCCTCA CAAATAACTG ATGGGTGATG ANCACACACC AAGTTCGACC
AAAGCAAAAA NTAAACTGAA AATTGTTGGG TGGGGTTATT CATATTTTAA ATTCAACATG CTTGCTCTAT TTAAAAATAC
C

SEQ ID NO:1493: (Length of Sequence = 315 Nucleotides)
GACGGAGCGA GGGGACAGAG CCCAGGGATG GAGGCGGGAT GCGGGGGACA GAGCCCAGGG ATGGAGGCGG GATGCGGGGG
AGCAGCTGGT AATGTGCAGA GACTGGGAGA GGGCGGTGTC CAGGTGGAGA GTATTTCAAG GAAGAGAAGG ATTAACAGCG
TCCACTGCCG CAGATGGGCC AANCNGAGAT GGGACTGGAA ACCAACCACT GCATTTAGCA TCCTGGGGNC TGCTNATAAC
CTTGGTTTGA TGGCTCCTCA AGAAGAGCCA NAACCCTTNA AAGTTAGTTC AAGAGAGAAG GGGNGAAGAG ACACT

SEQ ID NO:1494: (Length of Sequence = 405 Nucleotides)
AAAAGTTGAC AAAACATAAA GTATCTCTAG ACAGCAAGGA AATAATTTCA CGAGATTGCT AAATTGATGT CAACACCTGC
AGTCTAAAAT TTATACAGTT CAATATGTGT CATTTGATCA CTGGCATGTC AAATATAGAA CAGCTATGAC TTTGCTGGCC
AGTAAATTAT CTAGCAGTGA AAATCACTTT TTAGGAGAGT CGCAATCAAA CATTGTTTAA CGTGGGAGCC TATAAAGATG
CAAATTCCTG AACAACAGTG TCTAAGAAAA GTACATTGGG TCACTCTGAA CAGGTGGTAT GAACATTTGA TTTAACTGCA
AGATCTNCNG CTNTTTACGG GCTTTGTCAC CATCGNATGA ATCTTACATC CGCTGATGAC TNAGAGCAAG CAGGGGCGAG
CTGCC

SEQ ID NO:1495: (Length of Sequence = 364 Nucleotides)
CGTCTAATGA AGAGCTTCGA AACTTGTCTT TGTCTGGCCA TGTGGGATTT GACAGCCTCC CTGACCAGCT GGTCAACAAG
TCTACTTCTC AAGGATTCTG TTTCAACATC CTTTGTGTTG GTGAGACAGG CATTGGCAAA TCCACGTTAA TGGACACTTT
GTTCAACACC AAATTTGAAA GTGACCCAGC TACTCACAAT GAACCAGGTG TTCGGTTAAA AGCCAGAAGT TATGAGCTTC
AGGAAAGCAA TGTACGGCTG AAGTTAACCA TTGTTGACAC CGTGGGATTT GGAGACCAGN TAAATAAAGA TGACAGCTAT
AAGCCGNTAG TAGGNTATAT TGATGCCCAG TTCGAGGNCT ACCT

SEQ ID NO:1496: (Length of Sequence = 370 Nucleotides)
GTCTCTTGGA GCAAGGACCC AGTTATTCAT CTTAATTCTC AGGGGAATCT CTGTAGAGAT GAAAAGCAGG AGAACCAAGG
CAGCCTGGTC TCCCTGGGTG ATGAAAAACA GACTAAGAGC AGGGACTTGC CTCCAGCTGA GGAGCTTCCA GAAAAGGAGC
ATGGGAAGAT ATCGTGCCAC CTGAGAGAAG ACATTGCCCA GATTCCTACA TGTGCAGAAG CTGGTGAACA GGAGGGCAGG
CTACAAAGAA AGCAGAAAAA TNCCACAGGA GGGAGGCGGC ACATCTNCCA TGAATNTGGA AAGAGTTTTN CTCAAAGCTC
AGSCCTTAGT AAACACAGGA GNATNCACAC TGGTGAGAAA CCCTACGGAT

SEQ ID NO:1497: (Length of Sequence = 376 Nucleotides)

349

CACACACATA CAAAATCTGT CCATTTGCCG GAGNAATNTG TATGTATGTN AGTTGGAGGG TATTAAAAAT CAGTTTTATT
CCAAAGATTT AAAACTAGAC ATGACTTAAA AACAATTTCT GGAGCACTGC TTGCTGACAA TCTCGTAGTT CTCTGCTGCA
TTTGAGTGCA TTTTGTGGCC AGTCCATCAG GGCGTACCAT GGGATTATAT TTGAATGTGT GGTGCATCCT TCCTGGATGA
AGGATGTGTG AGGGACCTTG AACCTCAGCT GTATTAAACT GTAGCGCCTC CAGTCAGTGC ACTAGATGAA ACTTTTAGAC
ANCCTGAATT CTGTTGGGTC CNTTCTTTTT CCTTTATGTA GGCAGNCTNC AGCATG

SEQ ID NO:1498: (Length of Sequence = 281 Nucleotides)
TTTATAGGAC TTCTAATCTA ATTTNCCTAT AGTGTGACTA AAAGGGAGGC AAATTATTGG AACGGATTAT TCAAATGGNT
CCTTAAATAT TGCTATGTAT AATAAGCCAG TTATTATATC AGGACCATGT TCTCTGTAGG CCACTGTTTT NCTCTCTCAT
TCTCCAGTGG CGGCGGCGGG GAAGGCGGAG GCAGAGGCAG CAGCAGCCGC GCTGGCTGCA AATGAATGAN CCCCCAGCTT
GGGGGGAGGA CTCCAGGTGA GCCTCTGCCC TCGGGAGGCC C

SEQ ID NO:1499: (Length of Sequence = 395 Nucleotides)
TTTTATCACA CCCTGTTTTC CAAGGGTCCT GTTACGTACC ATTCACCATT CTGCTTAGCA ATGGCTTGTG AGATGGCATT
TATTCCTTCA GCATGTATTT TNATGTTCAC CTTCCTCTCA CCTAAATTCC TCCCCCACCC CAATAACAAT TAGTTGTTCT
ATTTGCATGT AGCCAGAGCA AAAAATGATT TCTTTCCCTT AAGTTACTAT TATTATAAAA GGGACGATAA ACACATGAGT
CATTATACCA CAAGTATAGT GTGGAAAGGA CTCTAAACAT AGGCTCACTG AAGAAGGTGG CATTTGGGCC AGGGCTCAAA
ATAAGGCAGA TTCAGATTTG AACTGAATAG ATGGAGGAGT CATTTCAAAC AGAAGGAATG NCATAACATG TGGAG

SEQ ID NO:1500: (Length of Sequence = 272 Nucleotides)
CTGAGTAAGN GTTCCCAGTC GGTCCCACTG GTCACAAATT TTNTGGCACC GATCATTGAC ATTCACAGCG TCGTGATAGT
CCAGTTCATT GAGCTCCTGC GCGATGGCTG CGATCTGCTC CACGCGGTCC TGGTGCGCTG CCAGGTCGCT CTCGAACGNC
TCGTGCTTCC GCAGCAGAGC CCGNACCTCT NTNAGCGACG CCGACTCGTA ATCCTTNTGC AGCAAGATCT GCTCTTTGCC
ATAAGCCCAA GTCTCGTGCG TTGAGGCCTT CT

SEQ ID NO:1501: (Length of Sequence = 394 Nucleotides)
TTTTTTTTCC TGGACCTGTC ACAAGCTTTA TTGTCCCGAG CACAGACTCG CCACACTTCA ACAATTCCAC TGTGGGGAGG
GGAGGGGTGA ATGAAGGACC TGGGGAGGGG ACATGGCTGA GCCACANCCG GGCGGCCACA CGGGGCGGGC TGAGAGGCCC
ACGGAGGCAG AAGCTCCCAA GGAAACCGCT TCTTGGACAC CCGTCACCAG GAGCCCACCT CCGGGGGCTC AGNTCCTCCC
GGCACCCTCC TAGATGGACC TCTGGCTGTT AGTAGACTAA TCGGTGCCCC TACCGATGGG GCAGAGCTGC CTGATTTTTG
CTAGAAAGAG CTGTATTTGA NCCTNGGTTA GGNCACTAAA GCATCGTTCT AGACGGCTGT TAATAGAACT NCAT

SEQ ID NO:1502: (Length of Sequence = 373 Nucleotides)
GAAACAAGGC ATAATGTTGT CACAGAATCA GAGATCCAGT CTCACTTTTC CACAAATCTC CAAATCTCCA GTCTTATCTT
GTGTGCTCTA ATGGTTTGGT TCAATCCCTT TCCAACTCTT GTTTTCAAAG CATGGGGCCT GAGTGTTCTC CACTCCTCCT
AAGAAAGGAG CTTGGGTGGA AGGGACCATG CTGACCTCCT CCATCAGAGG GCTCTTCCAG TAGTATTCTC GGATGCAACC
TCCATTTCTC AGTTACCATT ATTTCCTGTA TCAGCTTTGT CCTTCCTGGN GGGATGCACA GTGATCCGGG CCACCACTGT
TGTTGTCTTG TGCTTCTGCT CTTTCCTATG GTTTCAGGNT ATTTTCTGGG GTT

SEQ ID NO:1503: (Length of Sequence = 265 Nucleotides)
GNCAACAGGC CAGTNTTTAA AGAGGGTCAA GTGGAGGTGC ATATTCCAGA GAATGCTCCC GTAGGTACCT CTGTAATTCA
GCTCCATGCC ACTGATGCAG ATATAGGCAG TAATGCTGAA ATCCGGTACA TTTTTGGTGC CCAGGTCGCC CCTGCAACCA

350

AAAGACTCTT TGCTTTAAAT AATACTACTG GGCTGATTAC ANTTCAGAGG TCCTNNGATA GAGAGGAGAC AGCCATTCAC
AAAGTGNCAG TGCTGGCTAG TGACGG

SEQ ID NO:1504: (Length of Sequence = 311 Nucleotides)
ACTGGATGGA TGTTTGATCT GTGTTGGTCA TGAAGTTGTT TTTTTTTTTT TTAAAAAGAA AACCATGATC AACAAGCTTT
GCCACGAATT TAAGAGTTTT ATCAAGATAT ATCGAATACA GCATGGGATT GGGAAAGTTA ACTAAAGGTA TTTGAGCTTG
CACTGGATCT TGAAAGGTAG AAAAAGGGAG CAGGAGGAAA CTCATCCAGG TAAGAAAAAT AGACTGTNCA AGATGGGCAT
GAGAAACAGT GAGGTCCCNN GCTGGAGGTG GGTGCTAGTC ATGTTGAGCA CTNCTGGCAG GAGAGGTTTT T

SEQ ID NO:1505: (Length of Sequence = 363 Nucleotides)
CCACTCATGG CAGAAGGGAA GGGGAGCTAG TGTGTGCAGA AATTGTATGG TGAGAGAGAA GAAACAAGAG AGAGGGAAGG
GAGATAGCAG GCTCTTTTCA ACAACCAGCT CTCATGGGAA ATCATAGAGT GAGAACTCAT TCACTACCAT GAGAATGGCA
CTAGGCCATT AATGAGGGAT TCGCCCCTAT GACCCAAATA CCTCCCATTA AGCTCTACCT CCAACACTGG AGATCACACA
TCANCATAAA ATTTGGAGGG GTCGAATATC CAAACCNTAG CAACTTGGAA CCACCAGAAG CTGGAAGAGG CAAGGAAAGA
TTTTNTCCTA GAGGCTTCAG AATAAGGTAT TGCAATTCTG AAA

SEQ ID NO:1506: (Length of Sequence = 177 Nucleotides)
CGGACAGAGC AGGGCAGAAA AATGAGGGAA GGATGACAGA AGCTCATCAG AAAGCCAGTA ATACATAAGA TTAGTTTTNT
CAGCAAAACC TNGTAAACTT TGACGTTAAA AGACAAATAT TTTGATCTCT CATTCCCACT CTCAAAAAGG TTTCTAGTTC
ATATTGTTTT GCTAAAA

SEQ ID NO:1507: (Length of Sequence = 345 Nucleotides)
CTTGCTTGAT TTTCCCCTGT GTGTCAGAGA ATGTGCACAT TGAAAGAGAG GGAGCTCTCC ATCACCAAGA GAGCCCAAAA
ATAGCCCAAC TGATCATAGC CGTTGTAAAA ATATTCATGG ATGTAAGGAA AGATCCTTTC CCAGTCTGAT GCTCCTTGAC
TTGTGATTTG CTAAATTTGA GAAGCCATCA CTTACACAAC CTGTTTTATA GACAAATCCT TCCAGTTTCA GAAGAAAAAA
TGTCATCTAT CTCA.CCTCC ATCTCTTTTT CAAACTTCGA TAGATGAGAA GAAAATGGTG AAATAAATTT TTTAGAATCA
GTTTTGCAAG ATTGG3TTTC AAGGA

SEQ ID NO:1508: (Length of Sequence = 326 Nucleotides)
AGTTGGATTT CAGCTACTCA GAGTAATTGG AAAAGGCCAC AGCCTGGTGG GCTTCACAGC TTTCAGAGAC CTGGTAGGGG
ATGGCTAACA GGTTCTNCTG CCAGGAGACA AGTGGCAGAC CCAGGTGTGA AACTTTTACA GGTCCCACCA AGCCTTTCTT
ATGGAGCACA GAGCATAAGG ACAACTTCTG CAGAAATGGA ATGGGGTACT TGGAACCAAA AATACATACA CCTCCTTTCC
CACCTGCCTC CAGCTTAGTA GCCCATAGTC CTCTTTGTCC CTCACACTGA GCCAGGGCCT GNCTTAGATG ATGAAATGCA
TGGCCT

SEQ ID NO:1509: (Length of Sequence = 329 Nucleotides)
AGTATGGGTC CCTTGGTACT ACTCAAGGTT TACAATATTG CATTAAACAC ATTGAAAAAT ACACGAGAAC CTTGAGGGAT
CACATTTTAC TGCAATATGT GATTTCCTGG TGAGACTCCT TGTGCAGAGA TGATTAGCTC ACAGAGCGTT GTAAGCACGT
ANTCGCAACA CCTGAGCATG CCGCAATGGC AACAGGAGGT ATCTTCACAA TTATGATGGN AGTACAGTAT GTACTGCAGT
TGTTTACACA GTTATGATTT AGTACTACAT CTTTACANTT GGNTATTTNC TTNCTATTTT GAATGGTATG TACTGTCTGT
GTGTACATA

SEQ ID NO:1510: (Length of Sequence = 247 Nucleotides)
TAGGAAAGAG TAAGANCTTC TTTNCAGGCT GGAGGTGCTC GTATGGTGGG ACAGGAAAGG GGAAAAGAGA AAGGGGCAAC
ATGGCAGACA TACCACGGTT CCTACAGAGA TTAGGGGCAG CCCTGGCCCG GGAAGTACAC AGGGCAGAGA GCTGACTCTC
AGGCCAGGAA GGAGTTTAGC TCTNACCCAT CCTCANGGAC CACGGCTCTC CCCCAGCCTC AGCTGACACA CACACAAAGG
AGCCGTTT

SEQ ID NO:1511: (Length of Sequence = 369 Nucleotides)
CCACTTGCTC CTTTATTAAC TGTNCTTCCT GTAGTGTGTA TTTGGGATCC ACTGGGAATC ATAGAAAGGA ATCAGTGCTA
GGNTCTGTTG GGATTGCACC CTGAGGGATG TGGCTTTGGC TTCTCTATCA ACCTTTCTGT TCCCTTGTGC TATAGGAGTT
AAGTCCCTTT NATGCCCCCT ACAGTGGATT ATAGCTATGG CCTGTGGCAG GTGTATTGTT TACAATAGCT GAAGAATTTC
AGGCCCATGC TTTATGGGGG AGGGTTTTNC TAGCTAGTAG TCCCCTTTCT TTCTAGATTG CAGCATAAGC GTGAACCNCC
AAGGAATGCC ATATTTTAGA ATCCTGTNAT AGGATGGTTA AGGCTTTTT

SEQ ID NO:1512: (Length of Sequence = 236 Nucleotides)
ATGCATTAAG AAAAGACAGC CAAATGACAG ACTGATAAAA TATTTTCATT ACAAAATTGG TTGAGAACTA CCGTGTGACG
TAAATGAAGT TTCTATTACA CATGTACTAA CAGAGACTTT TCATTACATA TTCTAGGATA TATTTAAAAT ATATGTATAT
TTTGATATTA AGGGAATATA TTTTGTTGTC ATTTTACAAT GTGTAACTAC ATATATATTA NGGCCTTTCC AATAAA

SEQ ID NO:1513: (Length of Sequence = 408 Nucleotides)
CATTAATATT CTCAGTGTTG GAAATATTTT NATATTGCCA AGACCATAAT GTGAGGNGTG CAGCTGCATA ANTCCCTGAG
AGAAGATTAG TGGGGCTAGC ACCTTACAAG GAAAGACAAG CTTGTTGGCT GGGCCCAAGG ACAGTCAAAT GTCTGCCTGA
CAATCTCCAC ACAGAAGGGT TGCTCAGATC ACTTAGGACA CCCAGAAAGA GCTCACAAAG GGCAAACAAC CTAAGGCTGN
TATTCTCCAT CTAGCGGTAC TTACCTGGGA ACTGAGTGGC AGTGGACAGG AAGCAGGGCC TGGGCTAGGG AGACCCTCAG
GAGGAANGGG GACCCAAGAA GTTAGAAGTC CATTCATTCA TATACTCATT CATTCAGCAA ACATGCGCTT GACACCTTCT
GTTATGCT

SEQ ID NO:1514: (Length of Sequence = 359 Nucleotides)
TTNNCCAGGC TGGTCTCAAA CTCCTGGGCT CAAGTNATCC GTCCACCTTG GCTTCCCAAA GTNCTAGGAT TACAGGCATG
AGCCACTGTN CCTGGCTAGA AAATNTNTTT TTAAAAGTNA GGATGTAGAA TTNCCTAGCT ATGTAGGCAA GGCAGGAGGA
GAGGGGCCCA GTTGGGAAGC ATAGCCCACA AGAGTATGAG GGCCTGANCC AGGATGGTGG CAACAGGGAT GGAGAGGAAG
GCGTGCCAGG GCATGGTGGC TCACACCTTA TAATCCTAGC ACTTTGAGAG GCTGAGGGAG GAGGATCATT TTNAGCCCAA
AAGTTAGAGA CCAGCCTGGG GNAACATAGT TAAGGACAC

SEQ ID NO:1515: (Length of Sequence = 343 Nucleotides)
GAGCCCCTTG ATGGCAAGAN CTGACCCTTC CATCCTGGAG AAGAGGAGAC CAATTNATA TTATGGAGGC AGAATATACA
GGACTGTGTG ACTAATTCGA CATGTGTGTC CATGGAGCTT GAAGGGGACA GAACCACAGG TGCAAAACTG GTGTAGGTAG
TGCTGGCCAT TGCTCAGAAC TTTGTGTGAG TTGAGCCCAG GCCTCTGGTT GCAGGACTCG TGAATGGAGC AGTTCTGAGA
ACCACCCTTT TGCTAAGGGA GCTTNGGAGC CACATGGCTG CTCCCTTCAC ACTGGGTAAC AGTGTAGTAT CCTGTGAGAG
AATAAACGTA TTCATTTAAA AAG

SEQ ID NO:1516: (Length of Sequence = 380 Nucleotides)

352

TTTTGCCTTA TTCTATCCGA TTTTTTCCCT AAGCTTCTAC CTGGNATTTN CCTTTGGAAA AGTCTCTGAG GTTCCACCAA
AATATGGAAC TTNATTTTGG ACACTTTGAC GAAAGAGATA AGACATCCAG GAACATGCGA GGCTCCCGGA TGAATGGNTT
GCCTAGCCCC ACTCACAGCG CCCACTGTAG CTTCTACCGA ACCAGAACCT TGCAGGCACT GAGGTAATGA GAAGAAAGCC
AAGAAGGTAC GTTTCTACCG CAATGGGGAC CGCTACTTCA AGGGGATTGT GTACGCTGTG TCCTCTGACC GTTTTCGCAG
CTTTNACGCC TTGCTGGCTG ANCTGACGNG ATCTCTNTCT GACAACATCA ACCTGCCTCA

SEQ ID NO:1517:   (Length of Sequence = 411 Nucleotides)
TGAGCAAAAC ACAGAGGACT GCACCTCTAG TGGCTCGTAA TGAGAAAGAA GATGGTCTCA AACCTGAGAA AGATAATGTG
GAGTGGACCT CTGTTGTCTC AGTATTAACA GTCCCTTCTA GGAAGTAGGT AGCATTCTG AAAATAGAGT GAAGCAATTG
ACTGATGGAT TTAATCTTTA AACTGCTTAG GTAACCATCA ATCTGTAATG AGCTTAATAC TCTTAACTAG GTGCTATTTT
NCATGTGTGC TACTTTGCCA GTGATAAAGG ATTACGAAAA ATTCTTTACC AGAGGAAAAA AAAAAATTGA ATGACCTTTC
TTGGGAAGGT GGTCCCTTGT TTGTGATCAA ACTTTGACAA GAACTGGTAA TTAATTTCCT CTAAGGAATT NACCGTTCTC
ATAGTGTGTT T

SEQ ID NO:1518:   (Length of Sequence = 388 Nucleotides)
GGTGGGCAGC TTCTCTCTGC AGCTGCTCTC CCATCATCTG GCTGAATATG GGGCTTTNAT GGGCCTCAGG GGAGGAAGTG
TGTGCNAAAT GGTCCGTGGG CAAACATGGG CGGGCCTGGA AAAGGCACCA CAAGTTCCCA CCCCAGTCAG TAGGATCAGC
AGTCTGACAC CCAGGCTTCA GGCCCTCCCC GACTTGAAGG TGGTGCTTCA CCAAGGACTC ACCCACTCCT GCCCAGGAGC
TTGTNTGCCT CCTGCTGCCA TTTATGGTGC CCAGGCTGTT TGTNCCAAGG AGTGTCTGTG GGCCAGCNCT GAGCTGCCCT
CAGCACCCCC TTGGCCTCTT TTCTGTNCTC ATTGGTGCCC AAAGTCCGCA GCAGGCTGAA GTGGCAGG

SEQ ID NO:1519:   (Length of Sequence = 358 Nucleotides)
TTGGTTAAGA CCAAAGTCAG ATCACTCCCT CCTAGCTCCA AACCTGCAGT GGCTCCCAAT TCTNTCAGCA TACAAACCCA
GATCCTCAGG CTGCCATTTN TGGGCTGAAT CCTGTCCCTG CTGTCTGATC CCACCAGACA TAATGGAGGC CTGAGGTTCC
CTGAACACTC CTAGTTTAGC CTTAAGTTAA GTATTTGCAC ATGCTGGTTC CTATGCCTGA GATAATGTTC CACATTTNAT
CCCATTGCTT GCCAGAAATA GAAACCCTTC CACATAATTN CAAAACAGAG TTTACANCAC AGAGCTTTGG GTGACTGCAG
GCCTCCAAGA ANGGNAGGCA GAAGGGGCAC TGAAGAGT

SEQ ID NO:1520:   (Length of Sequence = 379 Nucleotides)
CCAGAGTTAA ATATGCCCAG GCTGAAAGAA GGTGTATAAT GTATGGNCGT NCTTATACCA AATGATTTCT TTGGAATTTA
AACAAATATG TTTAGTATTT TATTCCTAAT TTAGGAAGAA AAAGCAACTA AAGTTGTNCT GACATTGTAC ACAGATGAGT
AGCACGTAAC TTTTATTTAG TAAGCCCCAT AGGATAGTAN GGNATAAAAG TTGTTAGTGA GCAAAACAGG AGTATCCTGC
CATTTGCTTT AATTCTNCTT GTGATAGTTT TGAGGGTACA ATAATTCCTG TGTGCGTGTC ACTCAAGCAA ACCAGAAAGT
GTCTTTTGTA AATACGCATT TTGGGCCTCA TCCTCATGGA GGTTCCCGTT GTTTGTTGG

SEQ ID NO:1521:   (Length of Sequence = 339 Nucleotides)
GGGACAGGAA GCCTCTTGGG TTGGACTCAG ACTCAGGAGG TGACTCAAGC CTCAAGCTCA GAAGCCCTCT GTNACCATCT
GTTGACTCAG AAGCATGCCC ACCATCCCAT GCAGTGCCCT TCCAGGCACT GTCCTGTAGC AGACGGAGTT CAGGCTTTGG
AAGTAGACAG ACCTGGGTTC AAATCACAGC TCCGCTTCTT CCGCCTGAAG CTCCATAACC TAGGATAAAG TCGCTAAGCC
TNCCCAAGTC TCAGATTTCT TACCTCTAAG GTGAANGGAT TGGNTTCCAC TTTACTTCCC CCCTTTTNCC TTTANGGACT
CTGCATCCTC NTTTGCTTG

353

SEQ ID NO:1522: (Length of Sequence = 405 Nucleotides)
GTGAATTTCA AGCAATTGTT AATGGGGACC AACAGGGCTG CATTAAGAAA ACCACTTTNN ACTGATCTCT CCCCCACATA
TTTTTAATTT GTCTTGCTTT GTTTATTTTG GTTATGCAAG TCCTTTCTCT TCATGAAACA AGTGTAAGGC TCTAAGGCTA
AAATAATAGT TATTTTTGTG GGCCCCAAAT AGCTACTTTT GAATTTCTTT CTTTAGTATA TCTCAAATCT GGGGAACATG
GAACTTGAAG ACTCCTAACC ATGAAGCATT TGGAAAAATA CATATCATTC ACTTTTCACA GAACCATTTT CTTAAAAATA
AGGGGGCAAT ATCCAGATTC ACATGCATGT TCATAAATAA AGCTTTGGTT TTAAAACAAA TCCACACCAG CAATTATTTT
CAGCT

SEQ ID NO:1523: (Length of Sequence = 284 Nucleotides)
AGNTCACAGA ACTCCAATTC TTTATTAATC ACAGCTTGCT CACAATGACA TACAGGAAAA TAGCACTAAT GAAGNGTAAA
TATGCAGGCA GCAACCTTCA GGAGTTGGGA GTTGGGGAGA AACGNCTTCA AAACTGCGAT AGGTACTTAT GGTGGGTATC
TGGTGATTCT NAGTTGGCAC AAATGCCCTG CCTAGCCCCC TTAACTGCGT CACTTTCACA GATGGNGTGT TTTGTTGTTG
GTGTTGTTAG TAGGCAGGAT TGCCTTACAC TGGGGAAGAA AGAC

SEQ ID NO:1524: (Length of Sequence = 299 Nucleotides)
GTGCTTGTAC GTGACAGTTT TGTCTGATCA CATTTTAGGA AGATGATGCT GTTCTTNCTT CTTAAGTATT TATTTTNATC
AGTCAAGTGA TAGGAAGTTC AATTTCAAGT ACAAGACATT TGGATCAAGA AGTGACTATT ATTTATTTAT TTNAGATGGA
GTCTTGCTCT GTTGCCCAAG CTGGAGTGCA GTGGTGTGAT CTCAGCTCAC TGCAACTTCC TCCTCCTGGG TTCAAGCAAT
TCCNCTGCCT CAGACTCCCG AGTAGCTGGA ATTTACAGGC ACCCACCGGG ACCAGTGAA

SEQ ID NO:1525: (Length of Sequence = 398 Nucleotides)
GCCCATGAAG CAGCTCTCGT GGATTGGAGT CTCATGCCTG CAGCTCTCCC ATACTGGAGT TGCATGCTGG TGGTCCTACA
GTGCTGGTGT CTGGGCAGTG GCCTCACTCC CATGGCTCCA GGAGGCATTG CCCTGGTGAG GGATCTCTGT GGTGGCTCTG
TCCCTGTNAC AAGTTTCTGC CTGGGCTTCC AGGCTGTCCA TGATATCCTT TGAAATCTAA TTGGAGGCTG GCATGACCCC
ATGGCTTCCA CACTCTGTGC ACCTGCAGAA TCAGCACCAT GTGGACACTG CCAAGACCTA CCTACCACTT GTGCTCTCTG
GAGCAGCAGC ACAAGCTACA TCTGGGGCTG CTTGAGCCAT GGCTGGGGCT NCCAAGGAGC AGAGTCCTGA GGGTGGCC

SEQ ID NO:1526: (Length of Sequence = 318 Nucleotides)
GTCTCTCTCT ACTGCACCAT GATGCCTTTA AAAAGAATCT AGGGGCTGGG CACAGTGGCT CACGCCTNTA ACCCAGCACT
TTGGGAGGAG TTCACTTGAG CTCAGGAGCT CGAGACCAGC CTAGGCAACA TAGTGAGACC CCCGTNTCCA CTAAAAATGA
AAGCAAATTA GCTGGGTATG GTGGTCCATG TCTGTACTGT GGTCTAAGCT ACTCGGGAAG TTGAAGCAGG AGGNTCACTT
GAGCCCAGAA GGTCAAGGCT GTAGTGAGCC ATGATTNTGC CACTGCATTC CAGCCTGGGC AACACAGTNA GACCCTGT

SEQ ID NO:1527: (Length of Sequence = 313 Nucleotides)
TTGGCTAGAA GGGAGGCTGG AGCCTTTCAT GGTGGCTTTT GAATGCCATG GTGAATAGTT TGTCCTTTAT TTGTNATTGA
ATAGCAATTT GTACACTTCT GAGCTATTAG AGTGAAATGA TTAAGCCTGT GGTTTAGGAA GAAAGAGCCT ATTAGGGAGA
TAAATCTTTC CCTAGTTGTA GGAAGGGTTG GAACAGTATG ATATGGAGAG GGTAGTAATG AATGANGGAA TNGAAAACGA
GAATAATTTC AATGATACTG GAGGTGCAGT ATACAAGTTG NGCAGTAGGT TTATGTCTAG GAAGATAAGA AGT

SEQ ID NO:1528: (Length of Sequence = 405 Nucleotides)
GCCGTCGCTA CCGCCACCGC CACCGCCACC GCCGCCGAGT GCTGTCTCTA TGGCGAGGAG GAGGAGGAGG AGCGCGAGTC
AGCGACACAA GTACATAAAT AAAGGATAAA ATATTTTATG AAACAAATCT TCAATCAAGT ATAACATTTT GATGCTTGGC

354

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ATCTAGACTC CCTTGTGCCC TCACTATGCC AGCGGAACTG TAGATCATAG CCAAAGAATT TGTGAAGTTT GGGCTTGCAA
CTTGGATGAA GAGATGAAGA AAATTCGTCA AGTTATCCGA AAATATAATT ACGTTGCTAT GGACACCGAG TTTCCAGGTG
TGGTTGCAAG ACCCATTGGA GAATTCAGGA GCAATNCTGA CTATCAATAC CAACTATTTC GGTGTAATGT AGACTTGTTA
AAGAT
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SEQ ID NO:1529:   (Length of Sequence = 241 Nucleotides)

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GAAGGAGAAA CACTTCTTGC CTCCATAATT CAGACAGTAA ACTGATCGCT GAGATTGAAG TTTGCTTGTT TCCTGGGGAA
GCTTNAAGAT CCTCGTGGGA CCACCATCCC CTGCTCAGTC CTCCCTGGAA GGGGGCACTG GCTGGGTATG AGCCGCGTCA
CCGTTGGGTT TGTAACTTTN TGGATGGTGC CTGGNTTTCA CCTGGGGCTG GCTGAGGAAA GGGGAGGCGG TAGGNGTCTG
C
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SEQ ID NO:1530:   (Length of Sequence = 356 Nucleotides)

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GGTCTCATGC AAGGGTTTCC CATGCCTGTA AGTGTGTTTG TAATCCCACA TGTATCAGGT GCCTGGCTGC TCTGGGACTT
GCAGTAATTG TCTCTTGTTT GTTTCAGGTG TGATCCCCTG GGCCCGTTTG TTGTCGGGGG AGAAGACTTA GACCCTTTTG
GGTGAGTACT GCTGGGGAGG TGGCAGCAAC ACAACTTGCT TTTNTGGCTT TTNAGCCCCA GCTCATCTTC TAATTTNAGA
GTTTTCGGTC AGTCTCTTCC TTTGGGNGTN GAGGAGGCAG TTGTTTGCTG AGCAGCTGAG AAAGCACTGC CACATACGCT
GGCCCCTCCA CACCTAGAGC GGTGCAGGAG AGCACT
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SEQ ID NO:1531:   (Length of Sequence = 379 Nucleotides)

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CCAACAGATG CTGCTACGTT TCCTTCAAAA TTGTTAAACA TCTCTTGCGG AAGAAGCTGC TTAGTTATAT CCAGCGATTG
GTTCAAATCC ACGTTGATAC AATGAAGGGT GGGGTATCTA GCAGGATGTC TAGTTCACGC ACTGGGTGAA AAACAACCAG
AGCTGCAGAT AAGTGAACGA GATGTTCTCT GTGTTCAGAT TGCTGGACTT TGTCATGATC TCGGTCATGG GCCATTTTCT
CACATGTTTG ATGGACGATT TTATTCCACT TGCTCGCCCG GAGGTGAAAT GGACGCATGA ACAAGGCTCA GTTATGATGT
TTGAGCACCT TATTTAATTC TAATGGGATT AAGCCTGTCA TGGAACAATA TGGGTCTCA
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SEQ ID NO:1532:   (Length of Sequence = 307 Nucleotides)

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GATAAACTTG AGCCACCAAG AAGTGGACTC TGCCTAGGAA GACAGTTTGC TGAAGTTAGA AAGTACTGGT CTAGGAACCA
GAAAACCTGA TTCTNCCCAA GAGTTAGAAT TGTNAGTNAG TTCTTNCTGG TTTTNAGTTT CCTTATCTGT AAAATAATTA
CCCAGTTCAA TTGGATAATC TCTATGATCC CTTCCACATT CTGCATACTT GGATATCTAC TGTTTCTAAA TATTTTGGCA
TTTCTTATAA AGCCCTTTCA CATTTNCTTT ATTATTTTTC CCTCACAAGA ATTCCTGAAA TAGGATA
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SEQ ID NO:1533:   (Length of Sequence = 337 Nucleotides)

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ATGGCTTTAT TTGCTGATTG AGAAGTGGTC CAGCCGTGGG CTAGCAGTCA TTTACATATC AGTGACCAAA TGCAAACATA
CCCGTACTAA CAGTGCTTTG GTCCATGACA TACCCTTTTG ACAGCCCAAA GCTGAAACGT CAACTCTATC TGGGGTTACT
TGCTTATACA AAGATGTTAC TCTAGCAATT GTTGCTTGAG GGCAAGACCN GATGATTGTC ACTAGTAGGA AGAAAGCAGA
AGTGATGCAG CTTACACTGC ATAGTCCCTA CCCTTNTGGA TTAAATGGAA AAGTTGCTCA AACATAAACT TGTTCTTAAC
AAAGGTGGGT AAGANTC
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SEQ ID NO:1534:   (Length of Sequence = 317 Nucleotides)

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ATGGGCATGT GGGTACTACG TTTAAATATT TAATTATTTT AAAAATAAAA TAGGAAAGAT AAAATAGCTT AAAGTGTATT
GATGCTCTGA ATAACTTTAT GAGTGAATAG ATACTGAAAT TTGAAGTCAG TGTTTTGCAC AACAAATCAA GATTTGGGAC
TGGACTTACT GGGTTGGGGA CTTCTTAGGG ATAACGGTGG TGCTATGAGC ATGCTGGAAA GATGAGAAGC AAAAGCCTGG
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AATTGGGAGT CCTGTACTGT CTTTAGGGTA TGCAAAGAGG CTCCTTCTTT TCTAGGTGTT CATCAGTACA ATATGAC

SEQ ID NO:1535: (Length of Sequence = 323 Nucleotides)
ATATTACATT GATGTCAGTC TTTAAAGATG GAGTAGGACT TTNCAGGCAG CAACGAAAGG GAAGGACATT TCAGAAGCAG
AAATACCATT TGTTAAGGGA TGACAGCCAA GAAATATTAA AGCATATTTG GAAAGTATTG AAAATCTCTG TGTGGCTAGA
ACTTTAGATG AAGAATCAGA TACATCTGGA GAAGGAGATT NAACCNGATG ATCATAAAGA ACATTTTATT TAGGCCATGG
TAAGGCTTGG GCACTNTGGA GCCCATGAAG GTTTTTGGAC AAGGGAGTTT CCTTAGGGAG GAGTATNAAG CCATAAACCA
AAT

SEQ ID NO:1536: (Length of Sequence = 305 Nucleotides)
AACCACATTT TTACTGCATC TNCTCCACGC TGGATTCCAA CATGCTGGCC CGGAGCGTGG CTGGCTGGAA GCAACTCCAA
CAGGTTTTTC CCTTCCCCGT CATGTACATT ATTTATTTTT GATCCTACTC ACTGTCCCAA GTCCAGAGGC AGTTACAAAA
AACACTCTTG ATGCAAACCG TGAGTGGCTA CAACACACGG ATGGGGGTGG GCGCGATTCC CACAACAGGG AGTGGAATCC
GGGGAAGATG ATATATAGGG GCAAGACGGC CCCTTACTTT GCTAAGAGTA TATGGGAGCT CAAAA

SEQ ID NO:1537: (Length of Sequence = 279 Nucleotides)
GGTGGCAGCG GCGGCGCGGC GACTGAAGCG CGCGAAAAGC TGAGGCGGCA ACGTCGGGGA CGGCTGCNCG GGACGGCTCT
GTAGGAAGGA ACTTGGTTCC CCCTCCCTCA GCTTCCGCCC CAAAAGATTC AGAATGGACA GTTTAGAAGA ACCTCAGAAA
AAAGTCTTTA AGGCTCGAAA AACGATGAGA GTNAGTNATC GTCAGCAACT TGAAGCAGTG TACAAGGTCA AAGAAGAACT
NTTGAAAACT TGATGTCAAG CTGTTAAATN GCAACCATG

SEQ ID NO:1538: (Length of Sequence = 310 Nucleotides)
ATATTTCCTT CTGCTCTGAC TCCGGAAGAA CTTGCACTGT TGCCTAGGCT GATAATCCCC GAAAAAAAGT AACAAATGCA
ATTNTACCCC CCACCCCCAT ATACAGCCCT CATATATATA TATGAGAGAG AGAGAGGAAA AGATCATGAG ACATGTCTTC
TAGGGAAAAA AAATTCTAAC TTCCCTAGCC ACTGTAGTCA TTTGAAACCT GAGTTAGACT ATGAGTTAGG AAGTATTTTC
ATAGAGTTCA ATTAATATAT TTCTGCTCTA TGCATGGATG CTAACAGGTT TAAGGAAACA CAAAAGCCAA

SEQ ID NO:1539: (Length of Sequence = 267 Nucleotides)
GAGATTTTAC TTTGTAATCG AGTAATTTAG CCACACTCTT GTGAGGGAAC AAGCCAGAGC CAGGACCGCA TATTACCCGG
TAAAGCTGCA GAGAAGACTT GAGACTTGTA AGATTGGNCC NGGCTGCAGT CCCGTGGTCA GTAACATCTG CAACATTATA
CAGCCAGCAG ATCAGCTCTT CCAGCTGACA GCAAAATGTC TTCACACATT GCACCAGTGA TTCTTTTCCC TGTNCTCCTC
CTTTCCTGGG GAAGCTGCCC TTNAACA

SEQ ID NO:1540: (Length of Sequence = 354 Nucleotides)
ATTTATTCAG ATGAAAAAAA ATCAAGGCTT AATTTAAGTA ACTTGTCCAA GGTCAAGGAG TTGACAAGTG GCTGAGCTGG
AGTTCAGCAT CTCAGACATC TTCCTTTGAA TCCTTGCCTT CCTTGTGAAT TTCAGATGAC GGAGCATGAC GGCTGCATGA
TTATGGGGTC ACCGGGCCTG TCCTGGGCCT GAGGGACCAA GGATCAGAAA GGGCAAGAAC CAACTCGNTC AGCTAGTGAA
AGTGCAATTG GACANTGATC CTGTTTCCGG GNTTAACCTT CCGCTTGGCC TTTAAGAGGG NTTCTTGAAA TGCACCAAGG
GGGCCTAGAG GAAGCAAGCA AACTNCTTGG ACCT

SEQ ID NO:1541: (Length of Sequence = 403 Nucleotides)

356

GTGATGTTAT ATCAGGTAAA ACCTGTCTAA GGAGAATAGA CAGTAGTTAG TTCAACTTAC TCATTACGTA TTAGGAAGAT
TAACCTGGTT ATCATTGTTT TATACATATA TATATGNAAT ATATATGAGT ATTCGTATAA ATATAATACT TTTACCTTGT
TTATGTATTT ACTCAATATT CTCCTTTTCC TCTAAAATAA TCTGAAGTGA CTATTATCAA TAAGTTTACT ATGCCAAAAT
TCATTAATTG CCTTTCACTT AACTTTTGGG GCCATAATAA ATAATAAAAT GTATTGCCAT AACATTAATA AACTACCTTA
CAAAACCACC AATTAAAATC AAACAACCAA AAAGGTGTTA TTTACATCTG NNCACATAAA TCTACTAAAA ATACAGGGTT
CAT

SEQ ID NO:1542:   (Length of Sequence = 333 Nucleotides)
CTGGTACATG ANTTTATAAA AACATGTCAC GCCCGGCTCT GTGGCTCATG CCTGTAATCC CAGCACTTTG GAAGGCCGAG
GCGGGCGGNT CACAAGGTCA GGAGATCGAG ACCATCCTGG CTAAAACGGT GAAACCCGTC TCTACTAAAA ATACAAAAAA
TTAGCCGGGC GTGGTGGTGG GCGCCTGTAG TCCCAGCTAC TCTGGAAGCT GAGGCAGGAG AATGGCATGA ACCCNGAAGG
CGGAGTTTTC AGTGAGCAGA GATCATGCCA CTGCACTNCA GCCTGGGTGA CAGAGCAGAG CGGGGACTCC GGAGCAATGG
GNAGTACAAT CCT

SEQ ID NO:1543:   (Length of Sequence = 329 Nucleotides)
CCCCTGATAA ACCTATCAGA TTCTGTGAGA CTTATTCATT GTCATTAAGA ATAGCAGGGG AAAGACTGGC CCCCATGATT
CAATTACCTC CCCCTGCATC CTTCCCACAA CATGTGGGAA TTGTGGGAGA TACAATTCAA GTTGAAATTT GGGAGGCGGC
ACAGCTGAAC CATATCAGTC TGTATTATCT CTCCNTTTTT CTGCTTTAAG NGACTATACG NAGGTGTTGT TTTCAGGGNT
TATACATAGG TATTCTGAAA GATGGGGTTA TTTTCTGTTT CANACTTTGA CTAAGTGGCT TCTTTTGTCC CCTATGTGCC
AGAATAGCC

SEQ ID NO:1544:   (Length of Sequence = 313 Nucleotides)
CGGAGATCCG TGATGTAACA AGGATTGANC GAATCGGTGC CCACTCCCAC ATCCGGGGAC TGGGGCTGGA CGATGCCTTG
GAGCCTCGGC AGGCTTCGCA AGGCATGGTG GGTCANCTGG CGGCACGGCG GGCGGCTGGC GTGGTGCTGG AGATGATCCG
GGAAGGGAAG ATTGCCGGTC GGGCAGTCCT TATTGCTGGC CAGCCGGGCA CGGGGAAGAC GGCCATCGCC ATGGGCATGG
CGCAGGCCCT NGGCCCTGAC ACGCCATTCA CAGCCATCGC CGGCAGTNAA ATCTTCTCCC TGGAGATGAG CAA

SEQ ID NO:1545:   (Length of Sequence = 384 Nucleotides)
CCCAAAACCT GGAGCTAAGA ACTTCATCTC ACTTTTGACA CCCCAGCCCC CAAAATATGG AAGCCCAGGA GAGCCAGGAG
AATTTATAGC AGAGGCTTAA AGAGAAAGTT ATGATTTGTT TAAAGTAGAG AATAAGGTGA AAAATAAAAC CTGGTACTCT
GTCTGGAAGT CCTGGAAGTC TCCTTGCCCA ACCTCAACTG GCCTGTGGGC TCCTGTNTCC TTGCTCTGGG ATGCCATGGT
GAATGTGAAA ACAGGGGAGG TTGTGTGTGG GGGTGGGAAT GGCCTNTCGG TTGCAAGGCG AGTCCTTTGC TGAGCCCAGC
CTGAGACCCA GCTTATGGGC TTTATCCAGG TGAGAAAATN CTGGGGACAT GTGTTCGAGG TTTA

SEQ ID NO:1546:   (Length of Sequence = 345 Nucleotides)
TTTAAAGAAC AATGATTAAG TGAAAATNCT CTCAGTTTTT TTTAATTGGT TCAGCAATTG ATTAATTACT GAATCTTGAC
CCTAAACTTT TTAGTCTAGA AATGTGCTTG AGGAATACAG GCTGGAGATC AGCTTTTTGA CATTGCATTC CCCTCCTGGN
TCACATCCAT GTTGGAATCA ATTTATAAAC TGCCTTCCTA AGGCTTAAAA TGATGGTGAT CTACAGACAA GTGCCTTCCT
AGGCACAGGG TTGCTGGAGA CTGATGCCAG GCCCATGGCT CTTAAACGGA ACACTGAACT CATGGCAGAA ATGGTGGAAA
GTAGAGAAAT GAATAGAGGG GGGAA

SEQ ID NO:1547:   (Length of Sequence = 342 Nucleotides)

357

GGAGGCTGAG GTGGGAGGNT CACTTGAGCC TGGGAGGTTG AGGCTGCAGT GAGCTGTGAC TGCACCACTA TACTACAGCC
TGGGAGACAG AGTGAGACCC TGTCTCATAT ATATATATAT ATATGTATGT ATATATATGT ATGTATATAT ATCTCTAATA
TATTAATATA TATCTAATAA ATGTATCTTA TATATAATAA ATATATCTAA TATATAATAT ATATATTNCC NAGAGAGGGA
GAGGCTCTTA GGAAATTATC TTCTTGCATA TTATGTTATA TTATGCTATA TTTGGCTATT TCCTAAGAGC TCTATCGTAT
TATTTCCATT TATTTGTGAG GA

SEQ ID NO:1548:   (Length of Sequence = 334 Nucleotides)
GGAAATAAAG GTGACATGAA CTAACTATTC AATCATGAAT GGTAGAAAAA AATGAAAATG TAACGAGATG GGATCCGGGT
CAAAGTCAGG GGAGGTATAG TTGAAGATAT TGAAGGAGTC ATTATGATAC CAAAGAAAAT GGAAAGAAGT GGTATCCAGA
TAGGTTATCC TTGGAGAGTA TCCNGGGATG TCTCTTTTCC TAAGACCTTA GAGAAGGAAA GGATGGCTGA TAATATAGGG
AAAAGTTGAC ATGGAAGGAT TAAATAATTT TTTTGAGGAA TTCACGTAAG GNATGATAAT CTGAATTTTC AGGGCTAGGC
TCAGAAGCAG GAAT

SEQ ID NO:1549:   (Length of Sequence = 362 Nucleotides)
AGGATTCTGG GGGCTTAGAG AGGGCAGCCT GGAGAAGCCA GAGTTAAGCT CAGAACAAGA GGTGCAGGAA GAGCCACAGC
AGGGAAGGGA AGAGAGATCC CAGAGGAGGG GCAGAGTNTG GCAGGACAAG GGCCCTGCCG TACATGCTAT GCATGAAGGA
AAATCTTGAG ACTAAGACTC ATGAAAAGNT CCAAAATAAT TATTTCGTGT GGCCCCTAGA AGACTNAAGA GACATTTNCT
TCGCCATTTG CCCAGGGCTG CCTGGGCAGG AGACAAAGGA ATNAAAAGTC CAGGGGGAAA GCAAAAATCT ATGGGCTTCT
GAACACATGC TTCCCGGAGC TCGTCTNCAC AGCATCTTCA CC

SEQ ID NO:1550:   (Length of Sequence = 328 Nucleotides)
GGACTAATTA ACTAAGAGG TTTTGTACAG CAAAAGAAAC TGTCAACAGA GTAAACAGAC CTACAGAATG GGAGAAAATA
TTCACAAACT ATGCACCCAA CAAAGCTCTA ATATCCAGAA TCTATAAGAA ACTTAAACCA TTGAACAACC AAAAAAACAAA
CAACCCCATT AAAAGTGGAC AAAAGTCATG AACTGACACT TCTCAAAAAA AAGACATACA AGCAGCCAAC AAGCATATAA
AAAATGCTTG ATATCATTAA TTATCAGATG AATGCAAATC AAAACCACCC AAGTCTTTTT CTTCTGTCTA GGNTAATTTA
TTTTAGGG

SEQ ID NO:1551:   (Length of Sequence = 365 Nucleotides)
CAGGAATTTA CATGGGGAGA CCTACCTATG GCAGCTCTCG CCGTCGGGAT TACTATGACA GAGGATATGA TCGGGGCTAT
GATGATCGGG ACTACTATAG CAGATCATAC AGAGGAGGAG GTGGAGGAGG AGGAGGATGG AGAGCTGCCC AAGACAGGGA
TCAGATTTAT AGAAGGCGGT CACCTTCTCC TTACTATAGT CGTGGAGGAT ACAGATCACG TTCCAGATCT CGATCATACT
CACCTCGTCG CTATTAAAGC ATGAAGACTT TCTGAAACCT GCCCTAGAGC TGGGATATTG TTTGTGGGGC AATATTTTTN
ATTGTCTCTT GTTTAAAAAG TGAACAGTGC CTAGTGAAGT TAGGT

SEQ ID NO:1552:   (Length of Sequence = 330 Nucleotides)
GATCCAAAAA AATTTACTGA AATAGCAAAA ACGTGGACTT TGGGATTTCC TCTAACTGCT GCAAATTATA ACACAGAATT
GCTCAGTGTT AATACTTGAN TTGTGGGGCC AAGTCTTCTG GCTGCCCTAG TTCTCTTTTC TGGCATTTGA AAGCCCTTGA
GCTAGCTATG GAGCTAATCT TTGGACAGGC TTTTTGGTTC CCAGGAATGT CATGCCTTTG AATTTCCAAT CTATATATAT
ACAGTGTGTG TGTAJGTAJA NCTGTCTTTT CACTGTAAGG CACCTNCACC CATCCCTTAT AGAAGGNGGC CACAANCAAT
CAAGCNAATC

SEQ ID NO:1553:   (Length of Sequence = 304 Nucleotides)

CCCTTGTCCC ACAGCCATTT AAAAATCTTC TGAAGGGCCT CAGGGCACAA AGTGATCATT TGGGATCCTA AGTTAAAAAG
GAAATGCAAG AGTAGGNTAC TCCAATTCCA GAGTCTTTGC AGGAGGCTAA TCCCACAAGA AGGGTAGCAT CAGAGAAGTG
GGCATTGGTC TTAGTGGTGG ATCATCAGGT AGACAAGTGA TAGTGTGTGT AACCCATCTG AAATTCATTT TACCGTCACC
ACTCTTACAA AGGACAGTTT ATTCCCAAGG ACAGTGCTGA CGGGGAGGGG GACAGGCAGG GAGT

SEQ ID NO:1554:   (Length of Sequence = 309 Nucleotides)
TGTGTTACTG ACCATGTTTT TGAGAGTAGT GCCCCTAACC ACTTTGTCTC CACTTGCATA GTGTAGTGAT TTTNAGGNCT
CTGTATGTCA TATTATAACA GAACTGACTG TATATGGCTA TTTTATCCCA TAATCAAGCC AATTCTTCCA GAATATTACC
ATCAGTATTA CCACATACAT CCTCCCAAAT CTTATTTCAA AGAATAAATA TATAGTCACT CATGGTTTTT AAGNAAACCC
AAAACTACTC AACCAAAACC TTGAGGAAGG TTTTTCCAGG GNTTTCTACC TTAATTATTC ATAATGATT

SEQ ID NO:1555:   (Length of Sequence = 326 Nucleotides)
GTTTAAAAAC TGTCCAAATG TCATTTTAAT TTATGAAGGC ACCCAGAATA AGTNCTAATC TCATACTGCC CCAATATATT
TNCTGAAGCC AATTCTCTCT TTTATTAATT TTTACTGAAA ATAGCACTTT TTTCCTCCCC CTGATAGTAC TGGGTAATGT
TAGAATGTCC TCTAAAATTC TTTGGACCTT ATTTACATTC TCAAGAGNTT TTTTTAAATT TACCAATAAG ATGTGCTATT
TGAGGAATTA GACTTTAGTT CAGTTGTACA TGGNTTATGT CTGCTCATAT CATTCATGTC TGAGNCTTTC ATTTTATTAA
TATGGG

SEQ ID NO:1556:   (Length of Sequence = 375 Nucleotides)
CCCATCCCTG TTTAGGTGCT TTGTCCTCCT TGAGGAGCCT CCAATGCTGC TGCTCCTATA CATGTCACAA TTTCAGACCC
AGCATGCTAG GAACTGCTGC CAGCGCCTGG TTAAGCCAAT ACTAAATGGG GCCAAACAGG TGAACAGACA TTCTGTCTTT
CTCCAAACCT CTGAAAAAGA TTCTGCAACT CATCTCACAG TAATTTGTTC CCTAATTTAC TCTTAGGAAA TTGTCGTTAA
AGTCTGATTA GGTTAAGTCC AATTCCCTGT AATTAGGATC CTCAGTGAAG AAAAATCTAC CCATCACCAC AATTTATTTT
CTTTTCTATA GCTCCAGCAT CAGTAATTGT ACCATTATTT TTGGCAGCTC TGGGG

SEQ ID NO:1557:   (Length of Sequence = 306 Nucleotides)
AATTCCGAAG ACTATTCCTA TACATTAGAG TGAATTTNAG ACTATCTCCA TCATTCTCCA GCCATTCTTC AGTGGGAAAA
AAACGGTGGA ATTAAACTAG TGGAAACAAG GCTTTCTCAT CTAGTCCCAA TCCAGTCGAT AAGCTGTGTT TNCCAATCAC
TGCTCCAGCA CAATGGCCCT CAGTTTATTT TTAAGTCTAT GGCATGCCTG AAGGACCATG TTCCCATGAG TGACACCCTT
CTGTAAATGT GGTGGCACAT TATGGGCTGC TGTTTTAGAA GGGACTGNCA ACTTGCTGGG GGTTAT

SEQ ID NO:1558:   (Length of Sequence = 292 Nucleotides)
AATTCCCCCT TTCCAAATGT ATTTTCAATC CCTTGAGTGT CTAGGCTTCC TGCTTTTAAG GCCTNCCTTC TAACCCAGGG
TTGCCCCATT CACCTTAAAA CATTTTTCAA TAACCCAGAA AAAACCAGGN TGAACATACC CAAGCTCCGG AACCAGCAAA
TNTTGTTCGA ACCCCGCTGA TGACTCCCAG GGGAAGCCAA GAGGACAAAG ACAAGGATGA GGACGAGGAC CCAGGGACCG
NTGGTGAATG GCAACTGCTG TCAACTTCAC TTTTCAACCT CAGNCAGTTT GT

SEQ ID NO:1559:   (Length of Sequence = 246 Nucleotides)
GTGNTCCGTT CTCAGCCCAA CAAGAGTGAT CCTTTTAAGG TCCACACACG CTGCCTCTCC TNCCNCCSCA TGAGCCTCTG
GCATGGTCCT TCCTCCAGCT GGCCCCGGGC TGGGCAGAGC CTCCTCCTGC CGGGGCCCCT GCCCACCCCC TCCTTTGCCT
GGAGTNAGGG TGTTCATACC AAAGACGGAA CCATTTCGCC TTTAAAGAAA ATATATNCAG AAGCAGCCGC TGCCTCGNAG
CCCTGG

359

SEO ID NO:1560: (Length of Sequence = 383 Nucleotides)
CCAAAGGTAC AACAGATTTA CTACATTTAA GACAGGAATC TTTTCTAATC TCTGTGCCTA TTAAAGAAGC CACCTGCTTA
GAAGTACTTT GTAGATGAAA AAATACTTAT GAATCCACTG TAACTTCACA ATCTTGAATG CCAAGGAAAA ACTTTACTAG
TTTCATTTAC CACTATTCTT TAAAGTNCTT TTTGATTTTA TGTTTTAAAT TTTTTAATTT TATATTTTGA GACAAGGTCT
TGCTCTGTTG CCCAGGCTGC GGGGCAGTGG CATAAACGTG GCTCACTGTC ACTTTGACCT CCTGGGCTCA AGGAATCCTC
CCATCTTAGN CTCCTGAGCA AACTGGGNCC ACAGGCATGC ACCATCATGN CCAGCTAATT TTT

SEO ID NO:1561: (Length of Sequence = 313 Nucleotides)
CCCCCTCCAC CGCAGTCTGT GCCCCCGTCC CCACCACCAC CTTCCCCAAC CACTTACAAC TGCCCCAAGT CCCCAACTCC
AAGAGTCTAC GGGACGATTA AGCCTGCGTT CAATCAGAAT TCTGCCGNCA AGGTGTCCCC CGCCACCAGG TCCGACACCG
TGGCCACCAT GATGAGGGAG AAGGGGATGT ACTTCAGGAG AGAGCTGGAC CGCTACTCCT TGGACTCTGA AGANCTCTAC
AGTCGGAATT NCGGCCCGAA GNCAACTTTC GNAACAAGAG AGGGCAGATG NCAGAAAACC CATACTCAGA GGT

SEO ID NO:1562: (Length of Sequence = 320 Nucleotides)
AAACGGGCCG CGAACCGCAG TATCATGCTG GCCAAGAAGA TCATCATTAA GGACGGAGGC ACGCCTCAAG GAATAGGTTC
TCCTAGTGTC TATCACGCAG TTATCGTCAT CTTTTTGGAG TTTTTTGCTT GGGGACTATT GACAGCACCC ACCTTGGTGG
TATTACATGA AACCTTTCCT AAACATACAG TGTGTAACAG TTCTAATACA GCAAATTTAA TACAATTTTT TATTAGATCA
AAATTCAATA GAATGTTTCA TATGTTTTAA GGAAGGTTCA TTGAATTTCT TCTTTTCAAT GGAAGTCTTC ATTTGGAAAA

SEO ID NO:1563: (Length of Sequence = 299 Nucleotides)
GCACAAGCAT GACCTGAACC TGTCACCTGC CCGTNAGTAT TTCACATTTC TATAGTTTTT TGTGATTCTG CCTGCATTTA
ATCATCATCA CCAACAAAAA TAGTTCCTCT GAAGAATTAT TTTATACTAG GATTCTCAGG NTATCTCCTC TCAATCTCTA
TTGGGATCAC TCCACTCTGA CTTGTACACT CATTTTCCCA CTGATGTAGC TGTTCTCAAG TTAGAAGTTA AGTTCTCAGT
CTTCATTTTA TCAGTCATCT CAGCAGCATT CATTATGGTT CAGGCACTCC CTCCTATTT

SEO ID NO:1564: (Length of Sequence = 325 Nucleotides)
CAGATGGNTC AGTTCATACT CTGGCAGTTA ATTTTATTTC CTCTAAATAA AAATGGACAG GTTAATTTAT TAAGCAGCTG
TGTTATCAAT ATGGTACGTG TGTGTNCTTG TATAGATAGA TGTATATGTA CATACATAAC TATACATTTT NCTGGACACA
TAATATTTNA GGTGCCTATT GTATGCTAGA CACTGTTCTA CCATCAGTAA AAAAGCACTG CCCTGTTTTA CTGTTGATTA
AAAACAAAAT TCTGAAAATA GTGANCAATG AGGCTTACAA CATTTGTTAC AGGNTAAGGN ATCTCAATTT AGGAAAATGT
TGTCA

SEO ID NO:1565: (Length of Sequence = 382 Nucleotides)
TTTTTTTTTA TATTAGTGCC TGCTTTTTAA AAGTTTATTT TACATTTTAA ATACAGTATT TTTCTCATAA AAAAAAAATC
CAGGAAGTGC CTAACTCCAT GGTTTCTATA CCATATGTAC ATGAAAGCTG ACAGAGAGCC TGACAAATGT TCTGGATGTA
ACAGTATGAA CACCTATGAG CTGGGACTAC TTCTGANTCA AAATTAAAAA ACACAAATTA AGCACTGCTT AAGAAAAAAA
AAATCCAGTT TCTGAACAAC CAAAAGAGAA CAGAGTTAGA TATGTACAAA ACCAGGTATT AAAAANCAGN AAGGAATACA
GCACACAAAA ACTCAAACAN CCCATATGTA GTGAACTGTA TATACTGCAG TTAATGAAAA CC

SEO ID NO:1566: (Length of Sequence = 305 Nucleotides)

360

GCACTGTGGC TAATTGTAGC TCAAAAGATC TGCAGAGCTC CCAGGGCGGA CAGCAGCCTC GGGTGCAATC CTGGAGCCCC
CCAGTGAGGG GTATACCTCA NTTACCATGT GCCAAAGCAT TATACAACTA TGAAGGAAAA GAGCCTGGAG ACCTTAAATT
CAGCAAAGGT GACATCATCA TTTTNCGAAG ACAAGTGGAT GAAAATTGGT ACCATGGGA AGTCAATGGA ATCCATGGCT
TTTTTCCCCA CCAACTTTGT GCAGATTATT AAACCGTTAC CTCAGCCCCC ANCTCAGTGC AAAGC

SEQ ID NO:1567: (Length of Sequence = 292 Nucleotides)
GATTTCCCTG GGGAAGACAA CATCACCAGC AAATGGATGA TTGTCAACTG GGGAGCCATT GACTCTCCAC TTGATTGTGG
GTTGAGGTTC TNCTTCAGCC TCACATAACA AGATGCCATT GCTTCCGGTG CTATACACAG CACTCTGAGG CTTCTTTGTC
CAGCGAGGAG GCTCTTCTAC TATAACGTGA AAATCGTGAG TGGCTGTTCC CAAGAAATTG CTGGCTGTGC AGCGATAATT
TCCTTTGTCC TGGTAGGAGA CATNCTCTAT CTTCAAAGTC TTGCCATAAT TT

SEQ ID NO:1568: (Length of Sequence = 204 Nucleotides)
ACCTACTCAG GAGGCTGAGG CAGGAGAATA GCTTGAACCC AGGAAGCGGA GGTTGCAGTG AGCCGAGGTC ATGCCACTGC
ACTCCAGCAT GGGCAATAGA GCGNGACTCT NTCCCCCCGG AAAAAAAGAA CAAGGGCTAA NTTCAAATCA AATTTTCCCT
GTACCCTAAG AANAATAATT AGGNCGGGAG ATGTTTGACT AAGT

SEQ ID NO:1569: (Length of Sequence = 362 Nucleotides)
CACAAAGCCA AGTACAGAAC CACAGAATGA AGCCGTCACA AATGTTGAAT CCCAAAACAC TAACAGGAAC AACTCGTATT
TCCATTAATC AAGATTTTAG TATACCAAAT TTTCTAGTTT TTATCTCATG GAAATATAAG GGTATTTTAT CTTTTGTATG
CTACTGAAGG GNAAACATCA TCATACAGCA ATGAATACTT CAAGGGNCTT GTTGATCTCT CTATTATTGA CAGTGGGGTG
TTAAAGTCTC CCACTATTAT TGTGTGGGNG GCTACANCNC TTTGTAGGGC TCTAAGAAGG TGTTTTATGA ATCTGGGGGC
TCCTCTTTGG GNGCATATAT AATTTAGGGT AGTTAGTTCT CC

SEQ ID NO:1570: (Length of Sequence = 262 Nucleotides)
TGCTAAATGA TAGANGACAG ATTCAAAGTT GTAGTTACTG CGTAACTTTA TTTATGAGGC ATTTTAGAAT AGGCAAAACT
GATCINTTGT GGTAGAAGTA AGAAGTGGGG TACCCTCTGG AGGAAGAGAA TTTNCTTTGA AGTGGCATGA GAGGATTTTT
TTGGCTAATG AAAATTATTT NATATCTGAG TAGGGTTGTG GGTTACACAG TTTAGGCATT TNTCAAAACT CATGGNACCA
TTCATCCAAG TCCTGTGCAT TT

SEQ ID NO:1571: (Length of Sequence = 402 Nucleotides)
TGCTAAATGA TAGAAGACAG ATTCAAAGTT GTAGTTACTG CGTAACTTTA TTTATGAGGC ATTTTAGAAT AGGCAAAACT
GATCTGTTGT GGTAGAAGTA AGAAGTGGGG TACCCNCTGG AGGAAGAGAA TTTNCTTTGA AGTGGCATGA GAGGATTTGT
TTGGCTAATG AAAATTATTT TATATCTGAG TAGGGTTGTG GGTTACACAG TTTAGGCATT TGTCAAAACT CATGGAACCA
TTCATCCAAG TCCTGTGCAT TTTACTGTGT GAAAATTATA TCTCGACTTT TTTCAAAAAA GGAAAAAATA CTTAATTATA
ATATAGCATT TATGNATTAA AATAATCCCN TTATGTAAAA ATATTTTATT GGNTTGGTCA AGATTCATGA TTGCAAACCA
CC

SEQ ID NO:1572: (Length of Sequence = 417 Nucleotides)
CTACCAGCCC GTTTTCACAA CTAGCAGCAA ATCCTGAAGC NTCCTNGCC AACCGCAACA GCATGGTGAG CAGAGGCATG
ACAGGAAACA TAGGAGGACA GTTTGGCACT GGAATCAATC CTCAGATGCA GCAGAATGTN TTCCAGTATC CAGGAGCAGG
AATGGTTCCC CAAGGTGAGG CCAACTTTGC TCCATCTCTA AGCCCTGGGA GCTCCATGGT GCCGATGCCA ATCCCTCCTC
CTCAGAGTTC TCTTCTCCAG CAAACTCCAC CTGCCTCCGG GGTATCAGTC ACCAGACATG AAGGCCTGGC AGCAAGGAGC

361

GATAGGAAAC AACAATGTGT TCAGTCAAGC TGTCCAGAAC CAGNCCACGG CTGCACAGCC AGGNGTATAC AACAACATGA
GCATCACCGT TTTCCAT

SEQ ID NO:1573:   (Length of Sequence = 368 Nucleotides)
CAAATAAGTT AGAAACATGA AAAATTCTTA GAACTTTAGA TGAAAAATTA AATTTACTAC TAATACCCAC CTGCAATAAT
TTCCCGTAGT TTGGGATCTA GGTTTACAGT GCATGGCAAA AAGACTTTTA CATCTCGAGC CACAAGAACT GGGGTCCTTG
AAGACAAAAA CACTTCAAAA TTTCTTATAT CTCCATCAAT TTCAAGAAGT GGCTCAACAT CCTTAGTTGT TGGAATATTC
TTTGATATTC TTTCGTAGAT GGTTTTTAAT GTCATTTGAT CTGGAATACC TTCAGTCTCT TCCAAATATA ATATGAGNCA
TGAAGTCCGG TATGGCCACT GCTCAGTAAG GTTGATCCCG CTAGCAAG

SEQ ID NO:1574:   (Length of Sequence = 397 Nucleotides)
AATTTTAAGC AAATGTTATG TTTAAAGACT GTTTTGATGA AAACTTTTAG AATTGAGTTA GTAGCAGAAT ACATAGCTAA
ATGTACTTTN CTACAAATAG AATGAGATAT TTGATTTAAA ATATTNCTTT CCTCTTGAAA TAGGATGTTA GATAGGGACA
TCTCATTTTA CCTATCAAGT TCTGAGTCTT GCTTTAGAAC TACTTCTTTT AACTTAATTN CATGCATACA CTGGAAGACA
ATAATATGGC TTTTTAACTG CATTATCTTT AGTTGAAACT GATGGAGAAA CAAAAATACT GCTTATACCA TATTGGGTAC
ATGCTGAATG TTTTTAAAGA CTAGCCAAAA CTGACATTTT TTAAAATTAA ATAAGATGTT TTAGTTTCAA ATTAGAG

SEQ ID NO:1575:   (Length of Sequence = 296 Nucleotides)
GGACTCAGCC TTCCGCGGCA TCTGCATGAT GATCGGTGTC AACCCGGGGG GCGTTGTGCA GGTTGGGGCA GCTGGGCTCT
NAGGGCAGGC GCGGGCNCTG GGCTCGGGCG GCCCCTCACC TGGGATCCGT CACGTTTCAG GACTTTATTT TCTTCTTCAA
TGNTGTAGCC TCCTGGGTGA GCCCGAAGAT NACCTTCGGG ACATGTTTTA TAAGGTGAGG CTCTGTCTGG GCCCTGATCT
AGTTCCGGGA GCAGGCAGGA NGTGAGACCA TCTGGTAACA ATNGGGGCTN GGGATT

SEQ ID NO:1576:   (Length of Sequence = 289 Nucleotides)
CTTTATGAAG TAGTAATTCC TGAGAGGTGT GCTGGCTGAA AACATAATAG GTTCTGGAAG AGCCAGGTAA ATGCCTGGNT
TTAGACATGC AGGGGTTAAT CAAAATAATT TAGGAGCGTT TTCAGCTGGT GAGCCTCATA TGGGATCTTC GAACCCGTGG
CGAGAAGAAA ACCGGTGTTT AGGNAGCACC AGGCACAGTG CTCGGAAGGG AGAGGCTNGC CGGCCAGTGT GCAGCTCAGC
TNTTTCGAGG ACGGAACCCG CAGCCTNGCT GTNTCCCAGC AGACCCAGG

SEQ ID NO:1577:   (Length of Sequence = 320 Nucleotides)
CAGACTCTAC TCAGATTTCC CGCCTATGCC CCTAGGACAG AGCTGGAAGG GAAGGAGGCT GGGCCTATTT AGTCATAATG
CCTCCCCACC AGGTCTAGCT TTCATTCATC CATGAACCCT CACCCAAGGG CCAAGAACTG AGTTCACTGC ACCCTGGACC
CCTGTTGAGG TAGGAGAAGT AGACGTTGGG AGCAAGGTTC CTCTCCTAAT TTTNTTGCAT CCCCTCAGTG CCCAGCACAG
CTCCGGATAC AGGGCAGGTT CACAGTCAGC GTGTTCACCT GGGNCTGTGT ATGCACCTAA GGAAAAGNCT CAATTTTCCT

SEQ ID NO:1578:   (Length of Sequence = 217 Nucleotides)
AATCAGGAGA ACTGTTAGAG CCATACCAGA GAAAATCACA AGAAAGGCAG GACTGCAAAG NTCTAGTGGA GGCTGTGAGA
AAAGGTAAAC CCCTTCTTAA GCTCATCTGC CCCTTTAGTT ACCACTGGCT GTCTCACTCC TGGATTTATG TGACTCCCTT
AGCTATACTT TCCCANCCCC CTGGGNTGTT CCCCACTCAT CCTNTTCACT CACGAAG

SEQ ID NO:1579:   (Length of Sequence = 375 Nucleotides)

362

TTGGTCCTCA AGTCCTATTT TAAAATTTTG TCAATTAGAG GACTCTTGGT TCTCTTGGTT GACTCATTCT CTGCTGATTT
GTTCTCTGTA CTTGCAGCAA ATAAAGTGCA GTCATTGAGA ATGTNCCTGT GTCACTGTGA TGTATCAAGG GATCTTCATG
TTAATATCTG TTTCTCTGAC AACTGTGTTT TATACTTTGT ACTGTAGCTT TCATTGGAGA AGCCCTGGGC TCATAAGAGT
GATTTGTTGT GGCATTTCCT TATGGAACAT AAGCTTTTGA AATATACTTG AGGTAAATAT TCATGGAGA CATCCAAATG
CAGTAATGAG AGTACAATGA AGACAGCATT TTNGACTTTG GAAACCTGAG TTCAA

SEQ ID NO:1580:   (Length of Sequence = 325 Nucleotides)
TCTNCTGATG CACCCATGAG AGGGGAGACA GCACTGTCGT CTCTCGCAGT TTTCCCTTAA CACTCCCTTA TCTGCAGACT
TAAACTAGGA GCCCCTGGCA GAGTCCTACC TCCAGAATCA CAAAAGTGTA GAAGGAAAGT GAGAGACATT GATTGACTTT
ATATCTGACT TACTAGTTTC CTAAGGCAGA GATTTTTTAG AAAACTGCCT GGCCTGGCCC AGCCCAGGAT AGATAGGGAT
GGGTAAGAAG CCCTTNAGAA TGTGGCAGTA TGTGGCTTNG ACTTCAGACT TGTCAGATTA GGGGTTTTAT AGGGGTTTTT
TTAGC

SEQ ID NO:1581:   (Length of Sequence = 402 Nucleotides)
GCAGATCAAG AAAAAGTTTC AGCCAATGAA CAAGATCGAG AGGAGCATAC TACATGATGT GGTGGAAGTG GCTGGCCTGA
CATCCTTCTC CTTTGGGGAA GATGATGACT GTCGCTATGT CATGNTCTTC AAAAAGGAGT TTGCACCCTC AGATGAAGAG
CTAGACTCTT ACCGTCGTGG AGAGGAATGG GACCCCCAGA AGGCTGAGGA GAAGCGGAAG TTGAAAGGAG CTGGCCCAGA
GGCAAGAGGA GGAGGCAGCC CAGCAGGGGC CTGTGGTGGT GAGCCCTGCC AGCGACTACA AGGACAAGTN CAGCCACCTC
ATCGGCAAGG GAGCAGCCAA AGACGGAGNC CACATTCTAC AAGGCCAATA AAGACCTACG GCTTTTTTCC CNTGGCCAAT
AA

SEQ ID NO:1582:   (Length of Sequence = 286 Nucleotides)
TCTTAGTTGA TTAAAACAAA TAATTGAAAT AAAAAAATTAT GTTTATNCTT ACATGTATGC CATGTAGCAC TTTAAGGAGA
TGAGTTTATG AAATTCATGA ATGAGAGGAT GATGTAAGTT TAAAAATCAT TATTTTAGTT GCTTTATTCT NCTATTTTAA
ATTCATAAAT AACACAGGTG GCCTGTATTT TGAAAAGAGC CCTTTCCTCC ATTTGANCTT TATAAACACT GAGGCAGTAG
GTGTAAAATA TTATCTCCAC TTTATATTTG AAGGAAATGG GGGCCA

SEQ ID NO:1583:   (Length of Sequence = 323 Nucleotides)
CTAATTTTTG TATTTTTAGT AGAGATGGGG TTTCACCATG TTGGCCAGAC TGGTCTCAAA CTCCTGACCT CAGGTGATCC
GCCTGCCTTG GCCTCCCAAA GTGCCAGGNT TATAGGCATG AGCCACCACG CCTGGCCTTC CAGTTGTGAC CTTGTTAGGA
TACTGCTTTA ATTCATTTTC CCATTGAAAA TAAGCATGAA AATAACTGTG CAGTCATAAT TGTGGTATTT NCTGTNAAGG
AAAGTGGCAG GGCTCTGAGT GTTTATCGGG AGACCTAACC CAGTNTCAGA GGGGAAGTCA GAAGGCTTAC TNCCCAATGG
GGG

SEQ ID NO:1584:   (Length of Sequence = 301 Nucleotides)
AAATACTTGT AAATCACTTT ATGTTTCTGA GTAAGGAAGT AATGAAACAT ACGTACAAGT AATCAGTAAG ACTTGTTAGA
CAGCTGTTGT TCAGGATGCC TTTAAAAGGG CTGGTAATGC AGTTACATTC TAACAGAGAA GTCCAAACTA CAGGTAAAAA
CTACGGCTTG TACTGTGAAA AATGTGCAGC TTTTCAGTTA TAAAACTAGT TGAACACTGG TTTACAAGGT AATCCGTAGG
AACAGAGAGA CTGTAGGAAA ATATTCCAGC ACTTTGAGTT GTGTTTTGGC AGCAGCATTT G

SEQ ID NO:1585:   (Length of Sequence = 328 Nucleotides)

363

AAATACTGAT TTCAGACCTT CTTGCTCTAG AAGTCAAAAT ACTTTCCCCC TGACAAGAGG TAAGATAAGG TAGAAAATAG
AAACACTGGA AGAGAGATCT GGACTCCTAA AGCTGTGATG CCATAGTGTA GTGGGGGGGG GTGCGTGAGG AAGTCAGGAA
TGCCGCAATG TTAAAGGGAA AGGGAAGATG GAGCAAAGTG AGTCCCAGGG CCAGCAGGGG GCCAGCCTTN TTTGACAGGG
GCAGGGGAGA AAAGGCCAGA CTTCCCATAC ACATGCTAGA GGGGAGGGCT AGTGTTGAAG GGTAATAAGT TGAAGGAGTC
CACGGGCT

SEQ ID NO:1586: (Length of Sequence = 256 Nucleotides)
GGACTATCTG TATGGCAGAC TCATCAACTT TGAGAAGAGG AGGAAGGAGT TCGAGGTGAT CGCCCAGATC AAGCTGCTGC
AGTCGGCCTG CAACAACTAC AGCATTGCGC CAGATGAGCA ATTTGGGGCC TGGTTCCGGG CCGTGGAGCG CTCAGCGAGA
CTNAGAGCTA CAACCTGTCG TGCGAGCTGG AGCCCCCATC CGAGTCAGCC AGCAACACCC TCAGGACCAA GAAGAACACA
GCCATTNTCA AGCGCT

SEQ ID NO:1587: (Length of Sequence = 371 Nucleotides)
GGATTCTACA GGCATAGACT TACACGAGTT TCTGATTAAC ACATTAAAGA ATAATTCCAG GGACAGGATG ATACTTTTGA
AAATGGAGCA GGAAATTATT GATTTCATTG CTGACAACAA TAATCATTAT AAAAAGTTCC CTCAGATGTC ATCGTATCAG
AGGATGCTTG TCCATCGAGT GGCAGCTTAT TTTGGATTGG TTCACAATGT GGATCAAACA GGNAAATCTG TTATCATCAA
CAAGNCCAGC AGCACCAGAA TNTTACCAGC CAGTCTTGTC TNGTCAACAG GGGNTTCCAA GGGCTAATAG GAGTNCAGCA
GCCCACCTCA GAGTCAGACG TGGTTAAATN ACCCCCAAGG GACTCCGGTG C

SEQ ID NO:1588: (Length of Sequence = 314 Nucleotides)
CACACAGGAT TCCATAAATAC TCCTGCTGTG TTCTGAATAT TTGTACTTCA CATGGGATTA CTGAACACTA CTACGAGATT
CTGAATGTTT GTNGCTCACA TAGGATTCCA AAATGCCCCT GCTGTGTTCT GTTTGTCCCT CACATAGGGT CACTGCTGCT
GGGTTCTCAG TGTTTCTCAC TCACATAGAA TTCCAGNACA CTGCGAAGAA TTTCTGAATG GTTTTCTGTA ACATAGTATT
CCAGCACACT CTCGCTGTTG TTTGAATGTT TGTCCCTCAC ATAGGATTCC AGAACACTTC TGCTGATGTC TTGA

SEQ ID NO:1589: (Length of Sequence = 256 Nucleotides)
GACGAGGCAC CATGCGTGAN ATCGTGCACA TCCAGGNGGG CCANTNCGGC AACCAGATCG GNGCCAAGTT TTGGGAGGTC
ATCAGTGATG AGCATGGGAT TGACCCCACT GGCAGTTACC ATGGAGACAG TGATTTGCAG CTNGAGAGAN TCAATGTTTA
CTACAATGAA GCCACTGGTA ACAAATATGT TCCTCGGGCC ATCCTCGTGG ATCTGGAGCC AGGCACGATG GATTCNGTTA
GGTCTNGACC ATTCGG

SEQ ID NO:1590: (Length of Sequence = 313 Nucleotides)
GGCAACAAGC CAAGTAGCAA AGATATAAGC AACAATCAAA TGGAGCCTGA AATATGATAA GAGCATACAT GCACTTTAAC
AATAATTTTG ATACTGGAAT GATTATTTCA GAAGCAATAT TTTTNCTGAA AAGCATTGGT CTTCTGTACA GAAAAATAAA
AAAGTGAGCT GCCACTCATA GTGAATTAAG AGCTGTGGGC TGAAAGGGTC TCTTTTATAG CCAGTTTGAA ATTTTTCATA
TAATAAAAAC AGTATGTAAA TATTATATAT ATATACACAC ATACATATAT ATGCATATAT GTACATATTT CTG

SEQ ID NO:1591: (Length of Sequence = 296 Nucleotides)
TTTNAGTCTC CGCCTCACA ATTCAGCGAC TGCAGCTCGG CCAAGGCCAG GGGAGACCTG GGTGCCTTCA GCAAAGGTCA
GATCCAGAAG CCATNTGAAG ACCCCTGGTT TGCCCGGCGG ACGGGGAGA TGAGCGGGAL MNTGTTCACG GNTTCCGGCN
TCCACGTCAT TGTCCGCACG GAGTAGGATT NGGGGCCCAG GCCTGGCCTC GGGGTTCCCC CGCTGCCTGC TGGCCAGTGG
CNGAACCCCC CANTNCCTGC CACTNTCACA CAGTATTTAT TGTTACCAAA ATGGCT

364

SEQ ID NO:1592: (Length of Sequence = 299 Nucleotides)
GGAATTCCCA AATTATGGGT AGTCCAAAAG CCAAAGGCAA TGTGAGGAAG GACACTCCCC AGATAAGAAC AAAAACAGAA
ATCTGTATGT NCTATGTGTT ACACACAGTT GCGAATAATC AGATGTACAC ACATGATGCA AAGGCACGCC GCTACACATT
TATGTGATAT TCAGACATAT GTTCAAATAG AGGAGGTGAA TATCTTTTTA TAAATACAAT TTAGCAAGTA CAAGAATGCT
GATCAGCTGC AGCTCAAGAG GAAAGGGGGG AAAAAATCTT ATGGGAAATT ATTAATACT

SEQ ID NO:1593: (Length of Sequence = 378 Nucleotides)
CCAGTTTGGT GATTCTNTTC TGTGTCTGCT GATCTATTGG CGTGAGAAGC TGAAAGTGAC CAGCCAACAG CCATAACTTT
ATGTTTAGTG AGACTCATAA TGGGTCTCCT GCTGGAAGAT CTCCCCTCTA AGANTCAGTA ATTCTAGACC TGCAAAGTTT
GAAGTTGTAA GCATGGGAAA CACAAATTCC CCAAATAGGT CCAGATAGTG ATAGAGAATA AGACACTTAC TTGCCTACTT
CCATTTCTCA GCCCAGATAT TCTACCTATA GTGGACATGC CCATGCAATG GGCTATTGGG TTTGAGGTAT ACATTGCACG
GTTGAAGGAC AGTGCCTCAT CCTTGCAGGG GTGCCCTTTN CCAGTTGGCA CCACAGCT

SEQ ID NO:1594: (Length of Sequence = 353 Nucleotides)
ATTTTTNCGG GGGAGGTGTA TGTAGATGAG AGTCTATGAT ATAAAGCAGT AAAAAAAAATG CTGTTGTATA GGGATGCAAT
ATTTTCGGTG TAAGGAAGAG GTTTTAATTC ATAAAAATAGA AAACAGGTTG GAGAAGTCTT TAGGAAAGGG ATACCTTTTG
GGTTGGCTTT TGAAGGAGAA GTTTATACCC AGGTTCAAGC TGAAGGGCTA AGTGAGTAAC TGAAAGGGCT GAGCTATTTG
GATTACCATG AGGAATTTGT GATGGCTGGG AATGTAGGGT GTGTGACCAG ATGTGGAATC ACAGAGGGAG CCCACAGAGG
AGCTTCGGCA CATAANCTAA AGAGTTTAAT TTT

SEQ ID NO:1595: (Length of Sequence = 343 Nucleotides)
CAATATATTA AATCTATTTT GTAGCTGGAC TTCACTTACA ATGTAACAGA ACATTGAATA TTAGATTCTG AGCATATTCA
TGCAAACTTC CACTTTGGTG AAAGTGATGA CAGTGGAGTT CTGGAAGACA ATTTTCCTTG TAAACACCAA GTTTTGCACT
TTGGACTATG CTCTCAAGAT AGAAACTTAC GTGAGTGGAA AAAGAAAATG TATAAATGTG AACAAATATT CCTTACCACA
CAGAATAACC CTGGCAACAA ACAATATCCC CAAGTCCTGG GTNATTCAAT CCTCACCGTG GGCAGGAAGG GTGAAGGAGG
CTGCACCTGG GNCACAGCCT TTT

SEQ ID NO:1596: (Length of Sequence = 373 Nucleotides)
TAGTCAGTTA TTGCTGCACT AGAGCTAAAT AAAAGACATA AATATCTAAG GCACTTACTG GAATAAACAT CTTATTTCCG
CTAAGAGGTT GGCTAGGGAA GCTCTGCTTC AGAGTATGGG TTGAGTATAA GCCTGTNCCA CATGTCTTTT GCTCTGGGAC
CAGGAGTTGT GCAGCCCATC CTTTTCTCAA GACAAAAGCT GAGCCAAGCA AGGACATTTA AAGCTTCACT TCTGCTCACA
TCATATCTAT TGGNCAAACA TTCCATTGGG CCAAAGCAAA TCACATGGGC CAAGTCAAGC ATCAGTAGGT CTGGGGGAAT
ATTCTTTCCT CTACTCTTGG ACACATGGA AAGGGTTATG CATACTAATT CTT

SEQ ID NO:1597: (Length of Sequence = 276 Nucleotides)
GATTGTCCAT ACTTGATTAT TAGTTTCTAA AGAAAGTATT CTTAATTCCA AGCCTAATAG CTCTTATGTC ATTAGTTTCT
AGTGCAGAGA AATGTACTTG ATGAATTTTT GTTGACTTTT TTTTTTGCTA GCCAATATGA AGGTTGCCAG TCCCTGCCAA
AACAGCACT AAAACTATTT TNCATGAGTA ATAACAATAA TATTCTTTTT TAAATAGCAC CTTTTACCCA AAAATCTTAA
GCCTATATAA ACATTCACTC AACANTACAC TCAAAA

SEQ ID NO:1598: (Length of Sequence = 355 Nucleotides)

TGTATTGCTA ACTGTCTTTG TAACTAATTT ATGTATACNC TAAATGGTAT AGCATGTGAT TTTATTATAG TTGATTAACT
TTGTAATTNC TGTAACTGCA TCGATATCCC AGTCTACCTG GAAAATTAAG TCTATTAACC ATAGTTGCTG TGGGAGACAG
TACTATTGCC AACTGAAGCC TGAATCCTTC ATTTATTTTG TCCCCAGTTA CAGAGTGGAG GTTTAGAGGA GTGGGGTTAG
ATAATGCTCA GATTAGAAAT ACAAAGGCAG CTGTCAGATC CTCCCATTTT ATTTGTTTGA AGGAACTGAG GTTGGTAAAC
ATCACAAGNG CTAGTTAACT GGTGAGTAGC AGCCC

SEQ ID NO:1599: (Length of Sequence = 313 Nucleotides)
GGAGGTGAAG GACACAGTGG ATGGGCAGAG GNTCCTGGAG AAGAAGGGCA GTNCTGCNCT CAAGGACCTC AAGCGGCANT
GCATTTGGAG CGGAAACGGG CAGATAAGCT GCAGGAGCGA CTNCAGGACA TCCTCACTAA CAGCAAGAGC CGCTCAGGCC
TTNAGGAGCT GGTTCTCTCA GAGATGAACT CACCAAGCCG GACCCAGACA GGGGACAGCA GTAGCATCTC CTCCTTCAGC
TACCGGGAGA TCTTTCGGGA AAAGGAGGAG CTTCGGCTTG TTCCAGCCAG GTCCTTATCC AGCAGNCCTN AAG

SEQ ID NO:1600: (Length of Sequence = 277 Nucleotides)
AGTTCACAGA ACTCCAATTC TTTATTAATC ACAGCTTGCT CACAATGACA TACAGGAAAA TAGCACTAAT GAAGAGTAAA
TATGCAGGCA GCAACCTTCA GGAGTTGGGA GTTGGGGAGA AACGACTTCA AAACTGCGAT AGGTACTTAT GGTGGGTATC
TGGTGATTCT TAGTTGGCAC AAATGCCCTG CCTAGCCCCC TTAACTGCGT CANTTTCACA GATGGAGTGT TTTGTTGTTG
GTGTTGTTAG TAGGCAGGAT TGCCTTACAC TGGGGGA

SEQ ID NO:1601: (Length of Sequence = 228 Nucleotides)
TTGAGACCAT CCAGGCTAAC ACGGTGAAAC CCCGTCTCTA CTAAAAATCC AAAAAAAAAA AAAAAAAATT AGCCGGGCGT
GGTGGCTTGC GCCTGAAGTC CCAGCCACTA AGGAGGCTGA GGCAGGAGAA TGGCATGAAC CTGGGAGGCG GAGTTGCAGT
GAGCCGAGAT CGCGCCACTG CACTCCAGCC TCGGCGACAA AGCAAGACTC TGTCTCAAAA AAAAAAAA

SEQ ID NO:1602: (Length of Sequence = 299 Nucleotides)
GGAAGTCCTT TCTAATGAAG AGGGGAGATG TTATCGATTA TNCATCATCA GGGGTTTCCA CCAACGATGC TTCCCCCCTG
GTTCCTATCA CTGAAGAAGA TGAAAAATCA GATCAGTCAG GCAGTAAGCT TCTCCCAGGC AAGAAATCTT CCGAAAGGTC
AAGCCTCTTC CAGACAGATT TGAAGCTTAA GGGAAGTGGG CTGCGCTATC AAAAACTCCC AAGTGACGAG GATGAATCTG
GCACAGAAGA ATCAGATAAC ACTCCACTGC TCAAAGGATG ACAAAGACAG NAAAGCCGA

SEQ ID NO:1603: (Length of Sequence = 263 Nucleotides)
AAGGCAAGAA ATTAGCCTTG TTAAGAATTT TAAGTGTAAT GGGAAGCCAT TAGAGGGTTT TAAACAAGGA AAGATGTGAT
GTGACTTATA TTCTAATAGG ATTGCCTTGA TTCACCTATG GAGAATGGAT TNNTGGGATC TCAGTACTGG GATACTGAGA
TCCCAGGGGG AAAATATCAC TAAGGTTGGA ATTGCTTTTC TGCACATTAA AAGCAATTCN CTTTTTCCTT GAAACCTCCA
TGTGATGTTA ATTAGGGTAA ATG

SEQ ID NO:1604: (Length of Sequence = 260 Nucleotides)
ATGAAGACGT ACGACTTATT TTTGTGTTCT GAACATAAGT NCTTTGTCAC ATAAAATGTG CTATGAATGT TGAGTTTTAA
ATACTCGAGC GGTGACTCAC GCCTGTAATC CCAGCACTTC GGGAGGCCAA GGCGGGCGGT TCACCTGAGG TCAGGAGTTC
GAAACCAGTC TGGCAAACAT GGTGAAAACC CCGTCTCTAC TAANAATACA AAAGTAGCGG GGTGTCGTGG CGTATGCTGG
TAATCCTACG GTTCCTGTCA

SEQ ID NO:1605: (Length of Sequence = 290 Nucleotides)

366

GACAGACATT CAAACCATGG CAGGTGGCAA GAAGTATCAA ACTACTAGAT CCTTGGGATT GTNCTTTGTA CTGGGGTGTA
TTTTTNCCAA CAATCCTAAA AATCATATGA ATAGAGATAG CAATATATAT CTNACCCATT TGGAAATGCA CAGAGATTCA
GGAGTGTTCA CATAGAAACA GAAGATCATT GGCTTTTGTC CATTCCCAAC GCCAGNAATC TGTTTTCCTT GACTCTTTTT
GATCTGTGTT TCTGAATGTN TTGATATACT GCGCCTACTG GGTGTGCAGG

SEQ ID NO:1606: (Length of Sequence = 290 Nucleotides)
CTCACTTGGG TACTACAGTG TGGAAGCTGA GTGCATATGG TATATTNAT TCATTTTTGT AAAGCGTTCT GTTTTGTGTT
TACTAATTGG GATGTCATAG TACTTGGCTG CCGGGTTTGT TTGTTTTTGG GGAAATTTTG AAAAGTGGAG TTGATATTAA
AAATAAATGT GTATGTGTGT ACATATATAT ACACACACAT ACACATATAT TATGCATGTG GTGAAAAGAA TTGGCTAGAT
AGGGGATTTT CCTGAACACT GCAAAAATAG AACGTAGCAA AATGGCTTCA

SEQ ID NO:1607: (Length of Sequence = 365 Nucleotides)
GCTCCACTGA CCAGCTGTTC CCTGTCTCTC CTTCTCCTTG AGCCTCCCTC TTCCCTGAGA CACAATAATA TTAAAATTTG
GCCAATCAAT AACTCAACAA TGGTGTCTAA TAATTGTTCA GGTGCGAGGA AGAGGCATAC ATCTCTCACT TTAAATCAAA
AGCTAGAAAT GATTAAGCTT AGTGAGGAAG GCATGTCAAA AGCCGAGACA GACCAAAAGC TAGGCCTTTT GTGCCAGTTA
GCTAAGATGT GACTATAAAG AAAAGCTGTC GAGGGAAATT TAGAATGGTA CTCCAGGGGA ACACACAATG ATAAGGAAGC
AAACAGCCTT ACTACTNGGA TATGGGGAAA AGTTTTCAGC TTTGG

SEQ ID NO:1608: (Length of Sequence = 294 Nucleotides)
CTCAGGAAGC CTCTCTTTCT TCACTTACCA TTACTAACTC TCCAAGCATA GAAATCCCTG GGAATTGCGA GAATAACTCC
CACTATTTTA AAATTTATAT TCAGATTTGT TTCGTTTCAT AAGACACATC AAACAGGCCT ATACAAAAGG TTTAGGAAAA
GAAAACAATG GTGAGTCCCG GCCCTCTTCG AATTCACTGG CACCTCATGC AAGTNTAGGA AGGCACGCTG GATCGTCTAT
CTGATTCCAA AGCTGTCCTT TGCCATCTCA TCCCTTGGNC TGCCCCCCAA CCCT

SEQ ID NO:1609: (Length of Sequence = 393 Nucleotides)
CAAAAGCTAA CTCTTAATAA GAAGATGAGG AAATAAAATC AGTTCAAAAG GGAGGAATAT GCATTCCCAG AATTAAAGGA
CCCCGGGTCC AGTTTGAGGA GGACTCTTGG CCAGATACAA GCCCCTTGTA TAATNCTCAA GAGGGAGGAG ACCTTATTTN
CTCCTTNGAG GTGTCTAGTA TGAAANCTGC TTATTTTGAA ATGTGATTCT AGCCATTATC AGGNGCAACT GCAGATAATT
CCCATTTACA GAGGAATGCT GCTAACAGGT GTGGGNGGGA GCAGCGACAN CGNAAAATTC TGCTGTCATA GGTCACGTTT
ATGTTGGTTT TCTTTGAAAA TCAAGGGGTA GAAAATTTCA TGCCTCTAGA GGAGAGAGAG GAAACACATG AGG

SEQ ID NO:1610: (Length of Sequence = 464 Nucleotides)
TGTCTGTATT TATTAAATTG CCTTTACTAC TTTTAGATGG CCATACGTTT TCAAAAGCAA AGACCTAGTA AGCCATTTGT
GTTCATTTGC TAAGCTATCT TAGGTACAGG TCCAGATTAT AAATGTTACC TGCTAATCAG AGAGCAAATT TTTAAATTAA
TCACTTGTAA ATCCACATTA AAAGAAAAAG AAACTTAGAA AAACACATAA ATTTCTTTTG TGATCCCACT ATTCAGGAAA
ATCCATTGAA AAAGCAGATG ACTTATCCGT GTTAAATTTT TAAAGNCCCT ATTTAAACTG TCATGTAAAT TCTNATTTAT
CTAATTTTTT AAAACACATA TAGNNTTTTA CTCTCCAGTT CCATAANTGN CTCANTTCTG GTGANGGTCA TTACAACAGN
CATTACGNGG GCATATCGGN NTAAAANGGC CNTGCGGTCC TGNATCNGAG GNGGGGTTAA GGTC

SEQ ID NO:1611: (Length of Sequence = 465 Nucleotides)
ATAATTTAAA GAAAAGAGAA TTCTACAATG TAAAACCCTT TAATATAAGC TGTTTTAATA ATTGGAAAAC AGAATGANTA
NTGTTTTTNT TTGTCATGCC CAATTATTTC ANCAAGTTTT TATTAATAAC TTGCTACATG GTAGGCACAG CTGTAGGTGT

TGGAGATATA GAGGTAAACA AGTCTGACAT GATCTATGCT ACCACGGAGT TCTTATTTTC AAAGTGGAAG GTAGAAAATA
AATAAAAATG ANCTAGAAGA GCAAAGTGCC TCTGAATGAG CATGCAGANG CATGTTTTCA AAATGTCTGT GNGTGGGATA
AATAGATCAG CAACACACCA GGCCATGCAA TTINGCAGCA AATCACTTCT GCAGTCTAGC TGCTGTTTTT CCTACTCTGG
AATCATACTC CCCCCTTCGG TCATCTNTGC CAGTTTCNCT GNGCTTCACC CTACCCTCCN TTTTN

SEQ ID NO:1612:   (Length of Sequence = 458 Nucleotides)
ATGAAATTGA ACAAACCTAA AGAGAAATGT TCTTACCGTT CCACAGGAAC CAGCTTCTTC CACTGGGCCA CTAGGTCCCT
GGCAAAGCTT CCAACATGCT CGTGTTTTCG CAAGCTATTT ACTGTTTTCC CAACCCCAGT CTCCTAAAAT TTGACAAAGT
AATTGTTAGA GGGGTCTGGA ACTAGGCTAA CGTTTTTCTA AAGAAATAAG GCTTTCTACT TTGAGAAACT CAACAAGCAA
TACTTCCTTC CTACAACATA CCCTGCAAAT CTTAACACTA AATTACTTTG TGTCTATGNC CCAAATCTCT AATGACACAC
AGTAGCAAAG NGTACCAAGT TCAGAACTTT AATAACAGNG GTNATTAGGG CAGGTGTTAG GGCACTAGNT AAGNGCTTTG
CATCAGTTCT GGATCAGNCT TTTAAATAAC CCCTTAAGNG GGGNTNAGNC CCTTTTTT

SEQ ID NO:1613:   (Length of Sequence = 322 Nucleotides)
ATGTGGAGAT TTGTTGTGGG CTAGGGCAGT CCAGAGGAGA GATATGTGGC AGGACAAGTC TCTACCCTAT ACAAGTNCTT
CCGGCAAGCC CTCAGCACAT GACATAGGCC CAGAGAAGGA TGCAAAGAAT TCTGGTCATA AATTGTTTTC AAATATCAAA
TAAATCATAT GTGCACATGC ACAAACATGC CTTCACAACT GAGTAAAACC AGACTCACCT TCAAATATAT CAACAGTTTT
NTCAAGCGCC GTTAAAAATC AGGCATCGGA CCTCTGGNTN CGAGAGCTGG TTTNATGGGG AAGTTAGATC AACCCGTCAT
CT

SEQ ID NO:1614:   (Length of Sequence = 280 Nucleotides)
AGTATCAAGG GATAAAATAT ATTTTTAATT TTGTATTTCA CTTGAAAATT GTAAGGNCCA TTTTATAATG TATTGCTTGC
AAAATAAGTC ATGGAAGCCC TGAAAAATTA GTCAATTCAC TAATCAAAGA AACATATATT AAAGACCTAC TATGCATGAG
GCACCATGCT AATTGCTTTG AAGAAGACAA AGTTGAATTA GACAGGGNTC CCGTTTACAA GNTATTTACA ATGCAAAGGG
GGATACAAGA CATATAAAAG GCTATGGAAC TGCCCTTCCG

SEQ ID NO:1615:   (Length of Sequence = 393 Nucleotides)
GCGTGGTGGT GCGTGCCTGT AAATCCCAGC TACTACGGAG TCTGAGGCAG GAAAATCCCT TGAACCAGGG AGTCGGAGGT
TGCAGTGAGC CGAGAGCACG CCACTNCACT CCCGCCTAGC GACAGANTGA GACTCCGTCT CAAAACAAAA CAAAACAAAA
CAAAAAACCA AAAACACTGG GAGTCCCAGT TTGTAGGAAA TCATTAAGAT TTTATTATTT GAGCTCCAGA ACGAGTGAGG
ATGACCTGAT AATTTTGGTT TGGCTCAGGT TGTAATGTGT TTCTGTTTTG CTCGATGACT ACTAGAACAG TTCTCAAACT
GTGTGGTGGG TAAGAATCAC CTGGGGACTT TGACCAAGTN ACATGTCTAC AACACCCGGC CCCTACAGGC TCT

SEQ ID NO:1616:   (Length of Sequence = 353 Nucleotides)
CCACCCCAGC CTCCTTGGAG CTATCCCTTT CTATCCCCCT CCATCCAGCC CCTGGCCACC ACCATTATAT CTATTCTGGA
ATTCCCACAG GAAAAGCAGG CACTTTATAA ATCAGCGAGG GATTCACGGC GAAATGAGAC TGTTCGTGAG TNATGGCGTN
CCGGGTTGCT TGCCGGTGCT GGCCGCCGNC GGGAGAGCCC GGGGCAGAGC AGAGGTGCTC ATCAGCACTG TAGGCCCGGA
AGATTGTNTG GTNCCGTTCC TGACCCGGNC TAAGGTCCCT GTCTTGCAGC TGGATAGCGG CANCTANCTN TTCTCCACTA
GTGCAATCTG CCGATATTTT TTTTTGTTA TCT

SEQ ID NO:1617:   (Length of Sequence = 227 Nucleotides)

TTTCTTCCAT GCAACANTCT GNAGACTTAA GTGGCTTTCT NCTGTACTNC CATAGAACCC ACCCAGTACA TACCTCCAGT
GNGGCACTGA TTTTATGCTA TACATATGAC TGTGTGTTCA TCTCCTCCAC CAGACTGTGA GTCCCATTGG AGTAGGAACT
AAATTTTNTT CAACACTCTG TCTTCATCAC CTCGTGTAGT ATCTTGTACA GAGTAGATAA TGATTAA

SEQ ID NO:1618: (Length of Sequence = 362 Nucleotides)
GGAAGGTTTT TAATGCATGA NGTATACTTG TNATCCTGGA GGTTGGAAAA GATTCAGTAA AGATAAAGTT TGGCAAAAAT
GATTCTCTCC CTAGGATTTG GGGATATGTA AATCAAACCA AAGGCACATT CTGCAGCTCA CAGCAACCTT CATTTTTTGT
CCTAGATTGA GTTATCTATC AAGAATCATT CATTCCCTCT CAGCCCTTGC AACTGTTTCC TATGACTTTG GACTTGGCCA
TGCAACTTGC TTTGGCCAAT ACAATGTGAG TTAATGTGCT TTAAGTGCAT GTAATTAGGT CAGTCCCTCC CTCCTTGAGC
TTCAACTCTC CACCATGAGG ACAACATTGC CCTCCTTCCT GG

SEQ ID NO:1619: (Length of Sequence = 344 Nucleotides)
GCAACCTCAT CCCAGGTTCA AGTNATTCTC CTGCCTCANC CTCCTGAGTA GCTGGGATTA CTGGCGCACC ACCACACCCG
GCTAATTTTG TATTTTTAGT AGAGACAGGG TTTCGCCATG TTGGCCAGGC TGGTCTTGAA CTCCTGACCT CAGGTGATCC
ACCCACCTCA GCCTTCCAAA GTGCTGGGAT TCCAGGCATG AGCTACTGTN TCGGCCCAAA TCTTTCTTAA GTTGTGTCTG
GCCTTTGGCA GAAATAGCCA CAAAGNCAGG GTAGGAACGT TTTACTCTTC AAGTGATGAT GGCATCCGAT AANCTTTTAG
AGGGAGGTTT TTAAAATGCA ACGT

SEQ ID NO:1620: (Length of Sequence = 379 Nucleotides)
GCCAGCCGAA GCTCCTCAGG CTCCCACCCT CTACAAGCTC CTTCTGCTCC AGCCACACTC ACCAGGCCCG AGTTCCCACC
TAGCACCTTC CCTGGGAATN ATCTCCCCCT GGTTGGCTCT TTCTACTTAT TCAGCCTCAA ATGTNATCTC CACTGANAGG
CCTTTCCTGA CCTGCTGAGC TTGATTCCCT CCCCTCCCCA GTNACATTAC TCCGTGTTAT GGTACCCATC CCTGTCTCCT
TAGCTTGTTT TTGTCTGTAT TGGCTCTTCC ACTAGACTGT AAGCTGCATG AGGGCAGGGG ATGTCTGTTT AATNCCAGTT
GCTCAGGATA GTGTATGGCT CGTGATAGAT GCCTAGNACA TTTTAAAATG GGGACGGAT

SEQ ID NO:1621: (Length of Sequence = 283 Nucleotides)
GATTTGGGGG CTCGGGGAGG CAGAGAATCT CTTGGGAGTC TTGGGTGGCG CTGGTGCATT CTGTTTCCTC TTGATCTCAA
AGGACAATGT GGATTTNGGG ACCAAAGGTC AGGGACACAT CCCCTTAGAG GACCTGAGTT TNGGAGAGTG GTGAGTGGAA
GGGAGGAGCA GCAAGAAGCA GCCTGTTTTC ACTCAGCTTA ATTCTCCTTC CCAGATAAGG CAAGCCAGTC ATGGAATCTT
GCTGCAGGAC CTCCCTCTAC TACTTCCTGT CCTAAAAATA GGG

SEQ ID NO:1622: (Length of Sequence = 356 Nucleotides)
TTAATTTTAA AGCAGATAAT ATTTCAAATA TTTTCTTTGA AATAGACCAT TTGTCCTGCC TTGAAGTATG TTAGTACATT
TTAAGAAAGT CAGTGGGTTA AGGAGTCAGT GCTGTTAGTA TTCATGCTTA AAACACTTCC CTTCTACCTA CCCTAATAAA
TGAGGGGCTC AAGAGAAATA TTTCTAATTC TCTAGCGACA TGGCTAATTT TTTTTTTTAA TGTATTTTTG TATTTTTAGT
ACAGATGGAG TTTCACCATG TTGGTCAGGC TGGTCTCAAA CTCCTGAGCT CAAGTGATCT GCCTACCTCA GGCTCCTGAG
TCACTGAGAC TGTAGTTGTG TGCCACCATG CCAGGT

SEQ ID NO:1623: (Length of Sequence = 361 Nucleotides)
TTTGAGACAG AGTCTCGCTC TTTCGCCCAG GCTGGACTGC AGTGGCACTA TCTCAGCTCA CTGCAAGCTC CACCTCCCGG
GTTCACGCCA TTCTCCTGCC TCAGCCTCCC GAGTAGCTGG GACTACAGGC GCCCGCCACC ACGCCTGGNT AATTTTTTGT
ATTTTTAGTA GAGACGGGGT TTNACCATGT TAGCCAGGAT GGTCTCGATC TCCTGACCTC GTTGATCCGC CTGCCTCGGN

369

CTCCCAAAGN GTTGGGATTA CAGGNGTGAG CANCCGTGCC CAGCCGTNAA GTTAAGATAT TTTAAAAANA TCTCTGCAAG
TTGAGGAAGT NTTTCAGGAC TCTTTCCTGC TTAGTCTCAC T

SEQ ID NO:1624:   (Length of Sequence = 350 Nucleotides)
CTTTGTGAGC TTTTTGACCT GCGGGATCCG AGCCAGATTG ACAACAATGA GCCCTACATG AAGATCCCTT GCAATGACTC
TAAAATCACC AGTGCTGTTT GGGGACCCCT GGGGGAGTGC ATCATCGCTG GCCATGAGAG TGGAGAGCTC AACCAGTATA
GTGCCAAGTC TGGAGAGGTG TTGGTGAATG TTAAGGAGCA CTCCCGGCAG ATCAACGACA TCCAGTTATC CAGGGACATG
ACCATGTTTN TGACCGCGTC CAAGGACAAC ACAGCCAAGC TTTTTGACTC CACAACTCTT GAACATCAGA AGACTTTCCG
GACAGAACGT CCTGTCAACT CAGCTGCCCT

SEQ ID NO:1625:   (Length of Sequence = 333 Nucleotides)
GTCTTCTGTG AGACAAAGAA ATTATAAAGA TGGCAGAAAT TATTAGCGAC GTTCTACCTC TATAATTCAC GTTCCATGAA
TCAGTACTTC ATTTCTTTTT TATGGATGAA TTAATATTCC ACTGTACAAA TATACCACAT CTTGTTTTTC CATTCGTCTA
GGTTAAAAAA TTTTTATTTT TATTTTTATT TTTTTGTAGA GACGGGATCT CACTGTGTTG CCCAGGCTGG TCTTGACCTC
CTGGGCTCAA GTGATCCTCC CACCGTGGCA GTCCAAAGTG GGTAAACTGT ACGCTGGTCT GAAAGACCTT GCTGAAGAGA
GAAGAGGCAA GCT

SEQ ID NO:1626:   (Length of Sequence = 314 Nucleotides)
GACTGTCCGT GGACACTGGT TTTTAAGCCC AAGAACTGAA TATACAGTAG CAGTGCAGAC TGCCTCAAAA CAAGTTGATG
GTGATTATGT TGTGTCTGAA TGGAGTGAAA TTATAGAATT CTGCACCGCA GACTATTCAA AAGTTCATCT AACACAATTG
TTGGAGAAGG CTGAAGTGAT TNCAGGACGC ATGCTTAAGT TTTCTGTTTT TTATCGTAAT CAGCACAAAG NATATTTTGA
CTATGTTCGG TAAGNTTCAA AAATATATAG TGATTTGTTT TACTAAATAT AGTTTCAAAT TCTAGGCTCA GGGT

SEQ ID NO:1627:   (Length of Sequence = 375 Nucleotides)
CCCTGGGCAC CTGGTACCTG GGGACCTACA AGGTGGTGAG GGAAGGGTAC GAGTACATTC CTTNTCCCTC TGACCTGGGC
GCTAGAAGGG CAAAGAACCC GAGCCTGCCA GCTTGGCCTC CTCCCACAGC CTCCCTCGGA GGCATGCCAT GCCAAGCACT
CTTTCTGTCT CTGTTCATGA ATAAAAGAGA TGGATGGGCT TATTCTTATA GAGAAGTGAA TTTCACTTAC TCCCCTGGCC
CGAAAACTAG ACCAAATGAG GAACTGTTTT AGCTCATCAA ACTGTTATAT TTATTTTCAA CAATGAAAAC AACACAACAA
AGTGGAGTCA ATCCACTAAT TTTTTTAAAT CTAACACAAT TGTTTGCACA ACAAT

SEQ ID NO:1628:   (Length of Sequence = 434 Nucleotides)
TGCACAGGCA CACCTCCACT CTTTATATCA TTTTCTCCAT CTTTCATTTC CCATCTGTAC CTCCAAAATT TTGCTATGAA
TCTAATTCAT CTTTGCTCTC TCTCTCTCAT GGGTGCCTTT GCTTCTGCCA GTCTTTCTTC TCCTGCCCCA CCCAAACTTC
ATGAATTAGT CTTTTCTCCC AGGAGCTCTG ATTTCTAGAC TGCTTTGAAA ATGCTGTATT CATTTTGCTA ACTTAGTATT
TGGGTACCCT GCTCTTTGGC TGTTCTTTTT CTGGAGCCCT TCTCAGTCAA GTCTGCCGGA TGTCTTTCTT TACCTACCCC
TCAGTTTTCC TTAAAACGNG NACACAACTC TGGAGAGTGT TAAGNATAAT GTTACTTGGT AATGTGTATT TATTGAGGAT
TGTTGTGCTA AGAATGNGTA GGTTAAAATA GGGG

SEQ ID NO:1629:   (Length of Sequence = 341 Nucleotides)
CCTCAAAGCT GCAGGGAGGT GGGGGTGGCC CGCAGACAGG GTGGGGTCCG CATCCGGTAC CRCTGACAGC AGCCTCTCCT
CTCCCACGGT GGTGCTTGTT TGGGGCTGTG GCCAAAGTGT TTGCCCGGCC CCTGACTGTN TCCTTCCGGA GCTGCCGAGG
ACTGCAGAGA GGGCCTGGCT TGTCCCCTCT AGGAGCAGCT GGGNNGGTGT CTTGCCTGCA TCCCCCTTCA ATGGTTGAAA

370

ATAATGATTC CACTTGTCAT GAACACCATG AAGGTATCTT GGCAGCCAGA GTCACTCCTG TTCCCGAAGT GGGAAACCTN
GGGAGGGTCC TCAAAACCCC T

SEQ ID NO:1630: (Length of Sequence = 380 Nucleotides)
CATAAAACCA TCCTACGATG TGCTGCTGCT GCTGCTGCTG CTAGTGCTCC TGCTGCAGGC CGGCCTCAAC ACGGGCACCG
CCATCCAGTG CGTGCGCTTC AAGGTCAGTG CAAGGCTGCA GGGTGCATCC TGGGACACCC AGAACGGCCC GCAGGAGCGC
CTGGCTGGGG AGGTGGCCAG GAGCCCCCTG AAGGAGTTCG ACAAGGAGAA AGCCTGGAGA GCCGTCGTGG TGCAAATGGC
CCAGTGACCC CCAGACGCGG AAACCGGGTG GCAGCGCCAG CCTGGGCCCA GGCATGGAAA CGGACAACCC CTAATCGCCT
TAGCTACTGC TTCTAACAAC TCTTTTCCCT TGTGTTAAGG GAAACCAGGT TCAAGGGGGG

SEQ ID NO:1631: (Length of Sequence = 383 Nucleotides)
AGAGGATTTA TTTGGACAGG GCTGTGCTGA GAGTCCCACC CTCACCCCAC AATGGGCGGG GGCACTGGCA TCGAACACCA
AGCTGAGTGA GAAGGGCTCC TCCAGGCCTC GCAGGGAGCT TGCTGGCTTC TCCTGGCTCA CAGCAGACTG GGCCCGACTC
CCATCGGAGG AAGGCCAGCA TCCTAGGGCA GCCAGTGGAG GGCTGGCAGA GGGCTGTGCC TNGAAGGTCA CTGTGCTATC
TTCCAACCAC ACTGTGTGAG TCTCAGATAC CATATGTGGA ATCTGCATCA GGAAGGTCAA CTTGAGGTCA TTTTAAAAGG
GATTCTTCCG GNAAAAGGAG CNCCGCATCG GGCGNCTTAA NCCGGCGTTT CGGTTCATCC CGA

SEQ ID NO:1632: (Length of Sequence = 424 Nucleotides)
GGGAAGTGAG CTCCTGAACC AACTCTGAAG GAGACACCCA CTTGCTAAGC CAGTCTCACT CTAGGACACC TGCCTAGCGA
CCAGCAAACC TGGAATGAAA GGGCAAGTTC CTCAGTGCCC CCTCTGCATC AAAGGGAGTG GCTCTGCCCT CTCTAGTCTC
TGACTACCTG CTTAGTGATT TTTGCTTCTG TGCTCCCAGA CCCAAGAAAA CCACGTCTCT TTTCTTCCTT CATCGACTCA
TCCCCTTCTT ACCCTATATT GTCTCCTCCA CTTCCTGCCT CTGCTGGCCA GGCTTAAATC TGGGCCACCA GCCTTCCTGG
GACATACCTA TTTCCGCAAC TGAACCTTCC CAACCCCTAG GAAAACAAAG GTATTTTACA AGGCCTCTGG ACCTTGACCC
AAAGAGGCAT GNACCATAAT TACT

SEQ ID NO:1633: (Length of Sequence = 417 Nucleotides)
TTTTTTCTAC AGCATCTTTT TATTGTCTTT ACCATTACTT TAATGCATTT TAAAATTTAT CTACATTAAT TGGGAACTAT
TTGCATTTTT TTCATCCTCT CTCTCTTTTN CTTTTNCTTT TTTTGGATTT GTCTTGGCCA GAGAGGTTCT CCAACACCCG
GGTGGACTTG GAATTTTTTA TCAGCTGCAA TCTGAAGACT TGTCTTTACT GTGGAATAGG TGACATTCCT TTAGGACCTC
AGAAGCTCAA GTAGTTTAAT GCCAAGTCTT TCCAGAGCCT CACTCTCTTT TATTTTTTAA ATTAGAATTG TGATTTATTG
AAGNCTTACC ATGGGGTTCA TATAATTTNT NAATNGANCA GCTTTATTGA GGTATAATTC AATACCCCTT TAAAGNATGT
AACCCGTGGG TTTAGAC

SEQ ID NO:1634: (Length of Sequence = 423 Nucleotides)
AATATCCCAA ATGTGCAATG CATCACCTGA GACAGAAGGC AGAAAGCATC AAGCTCTCTG TTTATCCCAA TTCAATGACA
ACCAGAACTT ATTTTTTTTG AGATGGGGTC TCGTTCTGTC GCCCAGGCTG GAGTGCAGTG GGGCATTCAT GGCTCATCGC
AGCCTCCAAC TCTCAGTCTC AAGCAACCCT CCTACGTCAG TGTCCTGAGT AGCTGGAACT ACAGGCATGC ACCACCACAC
TTGGCTCATT TTTAAAAAAT TTCTTGTAGA GACAGGATCT TGCTACATTG CCCAGGCTTG AGGTGCCGTG GTGCATTCAC
AGCTCACCGC AGCTCAAACT CTTTGGTCTC AAGCGATCCT CCTGNCTCAG CCTTCTGGGT GGCNGGGCCT CAGGCATACA
CCACCATGTC TTGGTCAATT TCT

SEQ ID NO:1635: (Length of Sequence = 384 Nucleotides)

CAAAACTCAC TTTGACCCCA TTAAGAGGCA AGCCTGGCAC ATCTATCCCT GGGCCTTTAG AAAGCCATTT GCCTCAAATG
GCTATAGGGT TGTGGGGTGG AGGGAGGAAG GGCTGGGAGG GAGTGGGGAG GAATTGCTAG CTGTAGTGTG ACACATTGTA
GTGTTTGCCA GGAAATGAGC CAGACATGGT GGTGTATGCC TGTAGTCCCA GCCACCCAGA AGGCTGAGGC AGGAGGATCG
CTTGAGACCA AGAGTTTGAG CCTGCGGTNA GCTGTTAATG ACCACGGCAC TCAAGCCTGG GCAATGTAGC AAGATCCTGT
TNTCTACAAG AAATTTTTTA AAAATTGAGC CAAGTTTGGG TGGTGCATGC CTGTAGTTCC ACTA

SEQ ID NO:1636: (Length of Sequence = 362 Nucleotides)
CAAAATGACT GACTACAGCA ATGCCTTCCG TGTGCCCCAC ACATCATGAG CACCGCAAGA GACAAAAGAT TAACTATGAA
ATATAGTAAT CTAAGCAAGC CCACACATAC ATATTTTTGG GGATTTCCCA CCATCCTGAA TAGTATCACT GCAGTTGACA
CAACTTCCAG GGAACTGCAG AGTAAGTGCT TAATATTATC CACGAGAAAG CAAAACTAAA TATTAGTGTG CACATTTCTG
AATGAGAAAC TAATTGCTTC ATTGATTTCA ACAATGTAGT GGNAGNAAAC TATTTCAGAT CTCTACAATG CCTAAATGCA
TTCTATTTAA ACTCAAGGTA CTATTTTCAT TTTTACCATA CT

SEQ ID NO:1637: (Length of Sequence = 205 Nucleotides)
GGCGCCCGAC GAGGCTCAGA CCTCTTNTAC GNCGACTACT ACGAGGACGG CGAGGTGGAG GAGGAGGCCG ACAGCTGCTT
CGGGGACGAT GAGGATNACT CTGGCACGGA GGAGTCCTNA CACCACCAGA ATAAACTTGC CGAGTTTANC TCACTAGGGC
CGGACCCGTG GCTCCTTAGA CGACAGACTA CCTCACGGAG GTTTT

SEQ ID NO:1638: (Length of Sequence = 253 Nucleotides)
CACTCAGGCT CACCGTCCTG CTCTCTGCAC CAGCCTTTCC AGAGCATNCC AGTNCTCATG GCTTCATCTG TTAACTGTTG
ATCACTTCAG TCCTGATTTT TAGACCTAAA TGGTTTCCTT AACGCCATTC TAACTGCCTG TGACTCATTT TCACTTACAG
TGTTTATTGT AACGCCAAAC CAACAAATCA CAGGTGCTTG CTTCTGTCCA TAAATCTCCC CAGTCTAACT TTTTGTCATT
CAACATGRCT CGT

SEQ ID NO:1639: (Length of Sequence = 360 Nucleotides)
TGTGGCCAAG GACCCTATCG TCAATGTATG GTACTCTGTG AATGGTGAGA GGCTGGGCAC CTACATGGGC CATACCGGAG
CTGTGTGGTG TGTGGACGCT GACTGGGACA CCAAGCATGT CCTCACTGGC TCAGCTGACA ACAGCTGTNG TCTCTGGGAC
TGTGAAACAG GAAAGCAGCT GGCCCTTCTC AAGACCAATT CGGCTGTCCG GACCTGCGGT TTTNACTTTG GGGGCAACAT
CATCATGTTC TCCACGGACA AGCAGATGGG CTACCAGTGC TTTTGTGAGC TTTTTTTGAC CTGCGGGATC CGAGCCAGAT
TGACAACAAA TGAGCCCCTA CATGAAGATC CCTTGCAATG

SEQ ID NO:1640: (Length of Sequence = 321 Nucleotides)
GTGGGACGCC CTCTGCCTTG TCCTGAGAGC AATGTCTTCT CCATGGGGCA GCATNGGCCC TGGATGGGCC TGAGCATAGC
AGACCACGTG GTCACATGTG CATGTGTGGA CATGTGTGCA TGTGTGGATA TGTATGCTCC TGAGTGTATC TGCATGTCCT
NCCTGCACAC ACAGTGCTCC CCTCCGATGC TGCCAGCCTG TGGTGGACTT CCTCTTCTGA CCCCTTTCTT GCCNCCGGNC
TGTTTTATCA GTGAAAGGAC TTAACTAAGC AGATCTCCAG GTTCACCTTN TGGAACTCAG CTCAAGGTNA GCACAGCAGG
T

SEQ ID NO:1641: (Length of Sequence = 266 Nucleotides)
GGTGGTGCCA CTGTCGTGAT AGTTTTTCCC ATCTTAGTAG CCGNACCCAT AATTAATGCC TACTCACATC AAGTTAGCAC
CACTCAAATG TGGGCCATTC ACAGGCAGCC AGGGATCCTC TTGGNCCGTG AGGTTGGGGG CTTNCATCAG AATGCAAATC

TRCCGAGGCG TGAAGCACAA TTTAKTTCAA CTGCCATKTK TTCCTTCACA GTAAGRCCTT CTGGRGGAAG GAAGCAGTGT
GTTTGAGTTA TACCTTAGGC CAAGCT

SEQ ID NO:1642:   (Length of Sequence = 295 Nucleotides)
AAAAGCCCCA GCCTCAGGAC CCCGGTCACA GGCACCCGGG GGTGGGGGTG ACCAGCAGCA GTTCAGAGGC AGGTGTGGGC
AATGTGGGCC TGAGTCTCCT NCCCACTCAC GTCACTNCCC GCGGGGACAC AGCGGCATTT NTGGGGCACT NGGCATGCCG
GGTTCCTAAC CTCAATTATT CATTCTGCTC TCAGGCACCT CCTGACGAGA CCCTGGCCCA GGAGAGCTCG GCTCGGGGAC
AGAGGAATGA GACTCAGTGG GACGCAGAGN CCAACCCCAT CCCCACCCCT GGGCT

SEQ ID NO:1643:   (Length of Sequence = 359 Nucleotides)
ATCATTGGTA GTTTAAACTT TTCATCTAAT ATTAGATTGC ATGCAGGATT TTATATCTAA TTACTCTGGC AGATGGCCTT
TAGAAAGTTC AAAAATAAAA TGCAGCAATT CATATTGGCA GATTTACTAT TGAGACCAAT GCTTTCTTAA CTAAAAGGTT
TTGTTTAAAA TCGTTAGTTT AGGAAATCTG ATAAAGATTT TTGAATATCA GAGCGTTTAA AAGAGATTCT TACTTTACAT
CTGGCATATT TCTTGTGTTA CATATTATAA TTCCATTGGA ACATGGCTGT CTGTAAAACT ATGTATATGA TCCGGAAGAG
ACTCAAATTA AATTAAGGTT TAACAGCCAT CAAGTTCAT

SEQ ID NO:1644:   (Length of Sequence = 293 Nucleotides)
TGAACCCGGG NGGCGGASTT GCAGTCAGCC GAGATGGCAC CACTGCACTC CAGCCTGGGT GACAGAGCCA GACTCTGTCT
CAAGAAAAAA AAAAGAATTA AAAGATGTGA ACAAAAGCAA GAAAGTGCTG TATGAACGAA ACGGAAATAT CAATGAAGAG
AAATAAAAAT TATAAAATTC AGGAAATGAG ANGTACANTA NCAGNAAATT CACTGGAGAG ATTCAAAAGC ATATCTGAGC
AGGTAAAAAA AGTAGTGAAC ATGAGATAGG TCAAGGGAAA AGTACTGAGT CTG

SEQ ID NO:1645:   (Length of Sequence = 332 Nucleotides)
AAAAGCTGGA TATTAGGAAA TGTGAATATT AATTCTGAAT TTGTTACTGA CTCAGGATGA CCTTGCATGA TGCATCCAAC
CTTCTTTTCT CTATATCAGA AAACTAAAGA ATAAATGTAA CATCACATTC TTTTCTCCTT TGGGACAAAC AACTATGTAC
AATTGAATAA AAATGAAATT GCATAAGTNG TGGATAGAAT ATGTTTGGGT TGGTTTGAAC TTAGCACACT GTTTAATAAT
TCAACATTTT TTATACCTGT GCAATAAATT TTTAAATGAT GTCTGAAATG CTTTGAAATC TTCAGAAACA GGTTTATAAA
TGGCATAAAA AA

SEQ ID NO:1646:   (Length of Sequence = 210 Nucleotides)
GAAAGTNCTC CCAATCACTC TCTGCACAAT GAAGTGGCGG ATGACTCCCA GCTTGAAAAG GCAAATCTCA TAGAGCTGGA
AGATGACAGT CACAGCGGAA AGCGGTGGAA TCCCACATAG CCTGAGTGGC CTGCAAGATC CAATTATAGC TCGGATGTCC
ATTTGTTCAG AAGACAAGAA AAGCCCTTCC GAATGCAGCT TTGTTAGCCA

SEQ ID NO:1647:   (Length of Sequence = 246 Nucleotides)
TCCACTCCAA GGGTTTCTGA CCCAAGAGGT GGGGACCAAA ACCATGCATT CCTAAGAAGT CCCCAGGTCA TGCTGCTGTT
GCTGGACTGA GGACCACACT TTGAGAACCT GTGCTCTAAG TGAATACTTG GAAGTCGTTT CAGGACATGG GGCATAGAAA
CTNAGGAGTA GCTGAGAGGA AAATNAAGAG AAGCTGAGAA GAAGCRAAGG ATCCTCACAG GAGCAGACAG AGAAATGTGA
AGGGTT

SEQ ID NO:1648:   (Length of Sequence = 338 Nucleotides)

TCCACTCCAA GGGTTTCTGA CCCAAGAGGT GGGGACCAAA ACCATGCATT CCTAAGAAGT CCCCAGGTCA TGCTGCTGTT
GCTGGACTGA GGACCACACT TTGAGAACCT GTGCTCTAAG TGAATACTTG GAAGTCGTTT CAGGACATGG GGCATAGAAA
CTGAGGAGTA GCTGAGAGGA AAATGAAGAG AAGCTGAGAA GAAGCTGAGG ATCCTCACAG GAGCAGACAG AGAAATGTGA
AGGGTGGGGT TTTATGTNTG GGAAAGGGAC CCGAAGCCCA GGCTGAAGAG TTTTAACTTT GGGCCCAGAA ACTCAACCAT
CAATGGAAAC AGGGCAGT

SEQ ID NO:1649: (Length of Sequence = 275 Nucleotides)
GCACCTTNAG GATTGAGACC CGGAAGGCTT CAAAGGCTGT CGCAAGGAGG AAGAACTGGA AGAAGTTCGG GAACTCAGAG
TTTGACCCCC CCGGACCCAA TGTGGCCACC ACCACTGTCA GTGACGATGT CTCTATGACG TTCATCACCA GCAAAGAGGA
CCTGAACTGC CAGGAGGAGG AGGACCCTAT GAACAAACTC AAGGGCCAGA AGATCGTGTC CTGCCGCATC TNCAAGGGCG
ACCACTTGGA CCACCCGNTG CCCCTACAAG GATAC

SEQ ID NO:1650: (Length of Sequence = 270 Nucleotides)
AAAAGCCAGA GGGATGAGAA TGAGAAAGTT AAAAGGGAGG TCAGGAAAGC CATCTTTTAG GAGAAATATA AATNGACAAT
SCTTTAAAAA AGGAGCTGCC ATCATATTAT ACCCTGACCC AGCTGGATAC GAACAAATTC AGCCTTGGCA ATGCAAGTCT
TACATCTATT TTATATAGAT TGTATAAAAG AGAACTGGAA GCATTTTCAA GAGGGGTATG TATGTGTTTG TGTGTGTCTG
GTAATTAATG AAAGAGAGGC TATTGAATTT

SEQ ID NO:1651: (Length of Sequence = 372 Nucleotides)
TCTTGCTTTT TAATTGTATT TCTTAACACT AGAATTTTCT ATTTCAAGTT TTTGTACGTG GCCTTGCGTC TCCTTAGTAC
ATTTTATAGT CGCTGTAAGT TGATTCCATT TTTCTTGAAA TTGAATTCTC ATCTGACCTA ATTTCTTCCT TGAATCCTAC
ATCTCACTTT CTCAATGGAC GCAGTGACGC AATGAAGCAT CCAGCAAAGC TTTTGTTGTT GATTGTTTAG GACGTCACCC
TGTTTTTGTT GAAGTTGTCT CACAACTACT TCTCTTTCTG CTTTCTCTCT TTCATATTGA CATTGTTTTT CTTTTCAAAT
GGATTAACTT TATTGATCAT CCTCTTGTNC TTCTAGCAAA AGACGGGTGC TT

SEQ ID NO:1652: (Length of Sequence = 314 Nucleotides)
TTTCTGAGTA TGCTGCACTG GATTATTAGC ATGTTAAATA GTCAAAGGGA CTGGAATAAA CATCAGGAAG ATTTCATAAA
GTGGTGTAAG TAGAAAAAAA AGGTTAAACA ATGAGCTGCA TGTTGATAAG TATAAGACAC TGATCCAAGT GGTGGCTTCT
GAACCATGAT ATTACTTAAN CTAGAGTGTT AAGGTCAGCT TAAGTCAAAA TAAAACAAAG CTTCCAAACC CTCATTTTAA
ACACAGTAGA TAATAGATGA NTCTTGTATC TTGGGAGATA GTACAAGCCA AANGTTACAG CTGTGTTAAA ACCT

SEQ ID NO:1653: (Length of Sequence = 323 Nucleotides)
TAGATATGAT GGCTGGAGCT GCAATAGCTA ACTTGCAACT ATGAGGAACT ATAGGACTTT GGTCTTAACA TTCCTGAGCT
CCTGAATCAA TACTTTAACT ACCTTCTATG AGACTTCTTG TCACATGAGA AAAATTAAGC CCCAAATTAA ACCCCTGCCT
TTNACTGTAA CTCTCAATTG AGCATAATTC CTAAATGNTT TAATCAATTC TACTCTACTC TGGCATGATT TTNAAGGCAT
TAACCATAAT TTCCTTCCAA TCTAAAAAGG GAACTANTAC TTACTGGAGT ATCTAGTATA CATCAGATAC TGTGTATATA
GGC

SEQ ID NO:1654: (Length of Sequence = 352 Nucleotides)
ATCTTGGCCT GCAGGAACAT GGCAAGGGCG AGTGAAGCAG TGTCACGCAT TTTAGAAGAA TGGCATGAAG CCAGGGTAAA
AGCAATGACC CTGGACCTCG CTCTGCTCCG TAGCGTGCAG CATTTTGCTG AAGCATTCAA GGCCAAGAAT GTGCCTCTTC
ATGTGCTTGT GTGCAACGCA GCAACTTTTG CTCTACCCTG GAGTCTCACC AAAGATGGCC TGGAGACCAC CTTTCAAGTG

374

AATCATCTGG GGCACTTCTA CCTTGTCCAG CTCCCTCCAG GGATGTTTTG GTGCCGCTCA GCTCCTGCCC GTGTCATTGT
GGGTCTCCTC AGAGTCCCCA TCGATTTACA GG

SEQ ID NO:1655: (Length of Sequence = 325 Nucleotides)
AGGGTAAATT GTGAGACTGT TTGTATATAT TNTTTGTTTA TATGTTTTTG TTGTTGTTAT GTTGTTATNT TTATTTATAA
AATGATAGAT CTGTGGGTAG GTTCTGAGAA ATGAATAGCT TGTATTTCCT TTTTTATGAA AGAAGAACAA AATGAAGTTC
AAGTGGAAAG TATCTCCAGA AAGTTTAACA TTTTCTTATT AACCAACTCA TTGATTGGCA TGTGAAACTT GAGATATTTT
ATATAGCACT TTTTAAATGA GGATCTAGCT TCACTNTATC ATACAACCAC ATTTAAAATA GCCAGGTCCA TGGTCATTAT
AGGGG

SEQ ID NO:1656: (Length of Sequence = 285 Nucleotides)
GAGGNTTAAT AGAATAGATC AAAGCAGAAT GCAGTGTGTT CATGTCATAG GTTGACTTCT CCAGGAAACC GACCCCAAGT
GGAAGGTTTA CATGCAGGTG GTTTATTAGA GAGTGATGTT GGGAAGAACA CCTGTAAGGN AAGAAGGGAG CCTGGGAAGA
GCAGNGGNAG AAGGTGAACT CTGATTCACT TGCAACAGAG TCCTAGGCTG AGTGCATGGG ATNCTGTAGA GTTGGGGATG
GACCTTCAGA GATATTCCAA ATAGAGAAAG AATTCCTGTT TACTC

SEQ ID NO:1657: (Length of Sequence = 385 Nucleotides)
GACTTGACTT TGCTTTTTTC CCCCCAAGTA GAACTAATGC TAGCTTCCAG CTTGAAAGTA AAACTCCAGT GTGGAGTGAA
TTTTGTGTCT AATTATAAAC CTGTAACCAA AACTCAGACA TCTGGTACTG GTCTTTGCAT TGAGATTGGT CCCTGTAAAA
CCCCCTTTAA AAGCATATTG CATTTAGTAC AGAGCTCTTT TTTGAAATGN AGGCTGGAGA TGTGCATTTT TCACGGTGTT
AACTGGTTGT ATCTTATTAG CAAGGAGATT GGGGGTTTTG AGTGTTTGCG TGGGTGGGTT TCAAATTTGC CAGGGGAACC
AGTGGGCAGG CTGCTAGCAA GGCAGTGAGG AAGCTCTTGG CAGCCAAATG GGGTGCATTT CAGGG

SEQ ID NO:1658: (Length of Sequence = 338 Nucleotides)
GATCAGGACC TCTTCTTCCT CCCAACACTG CCCCAAGAGC CCGTTGTTAA ACGTTTACCA GCACACTACT GGGCTGTTTC
TCTACCACTT GATTGAAATG ATCCTTATGG AAGCACAAAT GACTTCACTG TCACTAAATC CAAGGGACAA TTTTTTAGTCT
CTATTTTTCT TCAACTCTCC AGGATGTTTG AGAGCTGATC TTTCCCTCCC TCTTGAGCCT CCTCTCCTGC CTGGCTTTTA
GGGGTCTCTG CTGACTTTTC TTCATTTCTA AACACATGTN CTCAGGGGGT CCTCAGCCCT GCAAGGCCNA TGCACTGGGT
ACCCAGTCCT GTGGGCCT

SEQ ID NO:1659: (Length of Sequence = 346 Nucleotides)
AGTATGTGAA GTCAATCACT TTTTATATGC AGATAATATG CGACTTATAA TGGAAGGTCA CGTTTCAATA GCAAACAAAA
AAGCTATAAG TAACAAAGAA TAACAAAACT ATAAATGTAT AGGCTCTACA TAAAGAAAAC TATAATTCCA TAAAGGATCT
AAAATAAAAC GNGTAAATGG AAAGACAAGA TGTGTTGTGA GATACGAAGA ATCCATGATT AAGTTAGAGG ATTCTTGGAT
GACAGTAGAG TAGAAAGCAC CAAGAATGAG TCTGTATACC CAGAGAACAC TTACGCTGGT AGGAATCTAT CTCATACAAC
TATTATGGAG CTCTCAAAGT ATACTG

SEQ ID NO:1660: (Length of Sequence = 240 Nucleotides)
GATAGAATAG CCAGCCTTCC ACTTGAATGC ACTGCCATAT TGTCAAGCTG CATTCCTTAA GCATCACTTC TTAGAGGCCT
CAAGCTTCTC GGGAATGTTT GATGACTTAA AGGGGAAATG AACAGGTTGC AATNATGCTT GTCAAGNTTC TTCTTGTGAA
CCTCTATTTG GACAATTCAC ACAAAAAAAG AAAGCAGCTC ATTTTCTAAT TCAGGATATT ATTTCTTTTT AAAACTGGTA

375

SEQ ID NO:1661: (Length of Sequence = 294 Nucleotides)
AGCACCTCCC CTGAGGGCCA GGCCTTGGAG AACGGATGA AGCAGCTCTC CCTACAGTGC TCAAAGGGAA GAGATGGAAT
TATTGCTGAC ATAAAAATGG TGCAGATTGG CTGATTCATC CTGGGCCCTG GCCGATATGC ATATCAACAT TTATACATGG
AACTGTGAGA ACATTKTGCC AATAATCATT TAATATATGC CAAATCTTAC ACGKCTACTC TAAACTGCTC TAATGAAGTT
TCAGTGACCT TGAGGGCTAA AGATTNTTCT TCTGGTGTAA GAGCTCTTTG GGCT

SEQ ID NO:1662: (Length of Sequence = 291 Nucleotides)
GATTTTCATC AGGCAAATNA AAGTAACCAC AGAAACAATT CAGTAATACT ACTAAGAGAG ATTAACTTCC CACTGGCCTT
GGAATAGCTA AGTGCATTGA TTTTKGTGTA GTTGTGAGTT TTTTTCTYTC ATTGATATTT TACGTATTKC TGGGGTAAAT
GTATTTTTWA CATGCATTGA ATGTGTAATG ATCAAGTCAG GGTATTTGGG GCCTCCATCA CCTTGAGTGT TTATCATTTC
TATGTGTGGT AACATTCCAA GCCCTCTCTT CTAGCTTTGG AATATATAGT G

SEQ ID NO:1663: (Length of Sequence = 345 Nucleotides)
GGCAGTGGGA CTCTCTGTGG ATAGACTGAT TCTTGTTTAG AAACAACAGC AAAAAGAAGA AGGCAGGAAA GAAACTCCCC
GGCTCGGAGG AATGTCTCTG TGATCCCCAT TCTTGATGGA GGGAGTGAAA AGGGGCCTGG NCTTCGCCCG CTGCTCTCCT
GACAGAAACA GTAAGTNACA CCAGGACAGA AGGCAGGAGC CCTGAGAACT CACGGCGCTC TGCATGGTCT CCAGCCNNNC
ACCCGTCTCC AGCCACCCCT GGAGCGGCCG TGGGGAGGCG GCAGAGGGGG CTTTTCGGAG GGCCCACTAT TNCCACACGT
CTTTCTTTNG ACACCCAGAA AACTT

SEQ ID NO:1664: (Length of Sequence = 334 Nucleotides)
GTAAATAAGA AAGTGAAATA ATTCCTATAA TGTAAGGTTG ATAGAAGATA ATCATCAGGG TCAGAATTAA GAGGTCTTGT
GGTTTAGGAA GCATAAAATT ATGTAACTTA TTGTTTATTT CACTCAGAAA ATAAAAGTAT TAATGAAAGG AGTTAGAGAT
GAACAGATTG ATACAAACTG TTCTATGGTT TACAGCTTAA AAAATAAAGG TACATTTAAT GCTATGCATT TTGAGAATAA
TGTCTTTTAT GCTNTTCCTT TTTACATATG TATCTNTTTG TATTTAAGGT CAAAATAGAT TGACATTACT AATTACTTCA
CTATTAATAA TTAA

SEQ ID NO:1665: (Length of Sequence = 310 Nucleotides)
TGTACTNCTA TGAAGCATCC CTTCCACATC AGATCAAAGA CATCTTAAAG CCAGAAATAA TGGAGGAGAT TGTGATGGAA
ACACGCCAGA GGCTTTTGGA ACAGGAGGGA TAAGGAGGTG CTCCAGAAGC ACGGGACTNT GGACCTTGCA GGAGTGAAGA
CTGTRATGTG TGGTCCCCAT ATGTGGCTCA GCAAAGACTC GAGAGATCAT CCCTTTGTCT GCATTGACGG CCCTGTGACG
GCCTCCAGCC CACAGGCCTG CTTTCTCCTG TCCTAACACC AAGCCTGGGT GGCAGATGAA CAGTGCTTCC

SEQ ID NO:1666: (Length of Sequence = 352 Nucleotides)
TTTTTTTTTA CATACAAAGT TTGGATTTTT ATTGAAATCT TGTTAGGTAT CAAACAAATT CTGCTTTCTT CAGATAAAAA
TATTCTCTCA GATGTCTCCA GATAACTGCT AAGTCTAAAT TGGTCCTTCA ATGTCTTATT TTTATTGTCC TCGTGAAATG
TTCATATACA GTTAAGATGT TCCCAAAAGG ATTTTTATCG TGTAAAGGAG CGTACATGAC GACCTCTACC ACTGCCTCCA
CTAACAAACT TTCCTCTTGA GCCTCCACTG CCGCTATTTG CACTAGCCCA GGGAAGGTCC AAGTCCCCCA CGACCTCTAG
AAGCACGGTT CCGAGGGACT TTGGCGGTAA CC

SEQ ID NO:1667: (Length of Sequence = 287 Nucleotides)
GACAATNATG CCGCTGCCCA CATTTTGGTC CATTCTTTTT TTTATTATGC TTCTCTTNCT TGGACTGGAT AGCCAGGGAT
GTTTCANCTT CTCGCTCGTC AAGTACGTAC CCCTGACCTA CAACAAAACA TACGTNTACC CCAACTGGGC CATTGGGCTG

376

GGCTGGAGCC TGGCCCTTTN CTCCATGCTC TTNGNTCCCT TGGTCATCGT CATCCGGCCT CTGCCAGACT GAGGGGGCCG
TTCCTTTGTG AGAGTCAAGT ACCTGCTGAC CCCAAGGGAA CCCAACC

SEQ ID NO:1668: (Length of Sequence = 300 Nucleotides)
CCAGACAAAT ACCAAGTTTA TTTCACAAAC ACTAGGAAGA TGGGTTGAGG GTGGAGGTGG GGGACACAGG TGCGCANTGC
ACAGAGTCAG CAGCAGCAGC CTGNTCCCCG CACTGAGGAC TCGGCCTGGA CTGCAGTGCC TCCAAATCAA CACGCAGCAA
GAGGGGAGTN CAGNGAGGGC CCTNAACACC AAGCCTCTGA AAGGCTAAGG GACACAGCTC CATCTGTCCC AGGAAAACCA
GCAATAAATA AAAGTNNGGC ACGGCCCCAC CCACACATAT CATCTAGTCA CCCATCTTCA

SEQ ID NO:1669: (Length of Sequence = 334 Nucleotides)
TTTTAATGAC AGATTTTCCT AAAAGAAACC ACTATAACAT CTGTCCAAGT ACTCCAGAGA AAACAAAAAA TACATAAAGA
TTAAAAGTCT ATTACTTTAA CAGCACATTG CCAAACACGG ACAACTAGGA TAAATGCCAA GAAACCTTAA AAAATAACTT
TAAAAGATGC AACGTTCAAG CCATTCAAAC GCGTAGGTTC CACAAACAAC AGGNNAACAA GTCCAAGAGC AGTTCTACTT
GTGCATGATG GTAACTCAGA CTGTACTTCA TCAAAGTTCA TTCAGGTGTT TCATAGGCGT CTGAGCAGAG TTTTGTTTTT
TTCTTTCCTT GCTT

SEQ ID NO:1670: (Length of Sequence = 287 Nucleotides)
GATAAAAGAG AAACAGCGAA GTTTCAAGAG AAAAACTTGA GGTCTTAATA ATTNTTGGGC AACTTGACAG CAGAACAGGG
TAAAANTGAG TTAGCTACAA AGGCTCATCA GAAAATGGCA ATAGATTCCA GAGAGATTTA ATAACTACTT ACAAACTCTG
CTATAGGTGA CAAATCTGAC CATGATAAAA GCACCGTAAA TGATATAGGT AACACTGNGC ATATGAAAAC TCAGACTGTG
CACTAGATAA AAAGGAANCC CAGCATACAG TGTTACCACA TGTAAAT

SEQ ID NO:1671: (Length of Sequence = 187 Nucleotides)
GATAAAAGAG AAACAGCGAA GTTTCAAGAG AAAAACTTGA GGTCTTAATA ATTTTKGGGC AACTTGACAG CAGAACAGGG
TAAAAWTRAG TTAGCTACAA AGGCTCATCA GAAAATSGCA ATAGATTCCA GAGAGATTTA ATAACTACTT ACAAACTCTG
CTATAGGGTG GACAAATCTG GCCCATG

SEQ ID NO:1672: (Length of Sequence = 329 Nucleotides)
ACATCACAAC ATCGTTTATT ATGTGAATTT TTTACAATAC AAACAAAAAA TACAGAAATG CAATATATGA ATACAGCTAA
ATGCAGAATG GTGACTTTTT TCTCTTCAAG AGGCCATGAT TCCCATTTCT AGTAAAATAA AGAGACTGCA TATAGGTAGA
AACAGGTTGG TCATTAGCTT CACAATTTTG CCTAGAAATG ATCTATAAAT GCATTTCCCC CCCTGCTACT TACCCTAAAG
TGTAAAAAGG GAGTTAAAGG AAAGTTTCCT TGTTGGTTCC TACCATATGA AAGATGCTAT ATTCTATTTT AGCAGTGCCA
ATATATGGG

SEQ ID NO:1673: (Length of Sequence = 386 Nucleotides)
CTCCCTACTG TGATTCTCAT CAAGCTGGAA GCGTNGTGAG AAAGCACTTC AGTTTCTTCC CTCGGATATG AACCTGAGCT
CTCTGATGAG GTGGTTTAGA AGTGGCCCTG GGAGAAGCCC ACTTCTTGGT CACAAGATAC TGCATTCTCC TGGCAGATGA
ACCAGCTGCT TCCAGCATCC TCTGTGTGGG TCCTCACGCC TAGCTGCTCT ACGTGCTGGC TGCACAGTGG CATCACATGG
GGAAGTAGAA AAACCTCTGA TGCCTGTCCC CACCCGGCTT AATCACAGTG ANGANANATT ATCTGGGNCT GGGACCCTAC
CATCATTTTT TTTAAAGAAT TGCAGGGGCC AGGGCGTGGC GGGCTTCAGA GCTTCTTAGC AATTTT

SEQ ID NO:1674: (Length of Sequence = 377 Nucleotides)

CTGAAATTTG GCAAGAAGGG GCAAAAACGT GACTATTAAT GATTGATAAG CACCAGTGAA GAAGTTCTAA CTTTTAGCAT
GCTGCACAGA AACTGGTATA ACATGCCTTC AGTATACTAA CACTCATATG CTCAGTTTTG TTTTGTTTTG GCAGTTGACA
AGAAGTTAAT TTGCTTTAGT AAAAATCCCT CATTCCAGCC TTTCTATATA AATAGCTCTT TCTTGCTGTT TTAATGTGGT
GCACACTATA GCCTCACAAA CCTGTTATTC CAGTGTAATC TGCAGTGTCG TAACTAAAGT TACTGGCTTG GGTCTTATTT
GCACAGTTTT TGCGNCTTGT TTGCTTCTTG CATCTGGATT AACTAGGAAT ATTTCTC

SEQ ID NO:1675: (Length of Sequence = 381 Nucleotides)
CAGAAGTCAA TCAGCTACGC ACCCAGTTCT CAAAGACCTC ACATGCTAGG GAAGGTGCGG AGGCAGAGTT GTGGTTCAGA
AGCAGTTACA GGTCTCAAAG CAAGAACAGC AGCCAAAGCT TCCACGCCCT GACGCTGCCT CTGAATGGTA AACCAATGGC
ATATGGTATC CACAGCTAGG CTTTGCTTTT TTCTGAGTGA AGGTAAAAGG CATTTGAAAA TAAACCAAAG TTTCACAGAC
TATGTTTATG GAACAAACAT GGGCCATTTT CAGGGATATA AAAGTCGATG TTCTATGTAG GCCCCCATAT GAGTATTTAT
CTACTTTTTA TTTACTTTAT TTTATGGAAT TTATTTGNCA AGGGGCTTCA CTCTGTTCGG A

SEQ ID NO:1675: (Length of Sequence = 404 Nucleotides)
CTGTGTTGAT TGCTTGAGCC CATCACAGTT TAGCTCTCAC AGCTTTAATT TACTAGCCCA TGAGAAGTCA GCTTCAAAGA
ACACCATTTC GACTCTCAAA GAACATTATC AATGTACATG GATAGCTTCC AACTTCATAA GGTGTTTCTC TCTACCTAGA
GCAATTAACA TTAATTTGCA GAATAGTGTT TATTGAAAAC CTTTGTGTAT CTCCAACAAA GTAATAGTGT ATTGATTTCA
TTCCTACTAT CTTCAACTGT ATCATTAAGA GGAATTTCTT AGGNAAGTCT ATATGCAGTA AGCAAGTAAG ATCGCAGAAC
ATCAAAGGGN GGAAGTAAAT CCCAAAACTG GNTTTTACCT TCCTTTCCCT TAGGTGAGGG AAAGGAATTT ATGGTTTTAA
AGCT

SEQ ID NO:1677: (Length of Sequence = 388 Nucleotides)
ATGGACAACT ATGAGCCAGG AGTCTACACA GAGAAGGTTC TGGAAGCCAC TAAGCTGCTC TCCAACACAG TCATGCCACG
TTTTACTGAG CAAGTAGAAG CAGCCGTGGA AGCCCTCAGC TCGGACCCTG CCCAGCCCAT GGATGAGAAT GAGTTTATCG
ATGCTTCCCG CCTGGTATAT GATGGCATCC GGGACATCAG GAAAGCAGTG CTGATGATAA GGACCCCTGA GGAGTTNGAT
GACTCTGACT TTGAGACAGA AGATTTTGAT GTCAGAAGCA GGACGAGCGT CCAGACAGAA GACGATCAAC TGATAGCTGG
CCCAGAGTTG CCCCGGGCGA TCATGGCTCA AGCTTCCCCA GGGAGCAAAA AAGCCGGAAG ATTTTCGG

SEQ ID NO:1678: (Length of Sequence = 428 Nucleotides)
TAACTGTGCA AATAATCCAT GAATATATTG TTTTTATACA GCATTACAGA TAAGGCTTGC AGCTCTATAG ATCACCCTCA
TCCACTCCTT CACTCCATTG CTACACTTAA AAGCCTCACA TGCTCTCCTG TCCTCTCCAA AGGCAGCTGC TAGCATCAGC
GCCCACAGTA GCCTTCTTTT GTTTCCTGTT TATAAACCAT ACATTTTCTA TGGCTACACA TACGTGTATT GTTTGATGCT
TTCTAATAAA ATTGTATCAT AGTGGTACAC ATCTTTCACA CTTTCCTNAT TACAGTCAAC ATTTGGNGGA ATACAGAATG
CAGCAGATCA AGGANCTTTT CTCAGTCTTT TCTAACATGN CCCCAAATAC AGCCTCACTA TGGGGTCCAT TTAGGNGGCT
CATTGGTTTT CACTCTCACA ACGGTGGC

SEQ ID NO:1679: (Length of Sequence = 256 Nucleotides)
GGTGTCCACA GCCTGCTGCC TGGCCTGGAG CAAATACCTT TGTTAAGTGC TCAGAGGGTA TGGCCCCTCA AATCCACCCT
GCAGCTCCCT GGCTCCAAAT ACACTCACTC CATCTTTTCA ACTCGCTCCC TGGACCCCTG GTTANCANT CACACTAA
CCTCAGTTGT ACAAAGCATT TTCATTTGAA TACAAAAGGC AACTNGNCAC CANATGGGCA TCCTTGAGCC ATGGTAAACA
CTGAATTTNA GGCTCA

SEQ ID NO:1680: (Length of Sequence = 438 Nucleotides)
TACCAGTAGT TCCTTTCCCG CTTTATTTTT TAGCTGCTTT TTGGGTTTTA TACAATGAAC ATGTATTAAT TGTAGAAGAA
AACGATGTCA TCCTTTATGA TAAAATCCAT TTCCATTTTA GCTTTTTTAA AAAAACAAAA AGCTGTTGTG GACAGATGAA
CATCCAAGTA CTGGGCACAC CTCCAGCCCT CCCTCTTCCA CTGAAGGCCA TTGCCTATTC CTAGAAAGTT CTTTCCCAGG
TATGCAGCTT TCAGTTTCCA CTTCAGAGGC CACAGTGTCT GGGGGAACGG ACTGCCCCCA ATACTAAAGG GAGTCAAAAT
CTCTTTAATT NCCGCACTTC CTCAGTACCA ACAAGGAAGT CCCTTCTTTA GGGCCACTGG ATGGGAACCT NGGGACCCCC
CTTTTTTGAT TGGCAAGCAT TGGGGNTCCT AGGGCCTT

SEQ ID NO:1681: (Length of Sequence = 370 Nucleotides)
GTCTGGGAAG GGTACAATGT CGTCCGCGCC TCGAGGGCCA TGATTGGACA CACCGACTCG GCTGAGGCTG CCCCAGGAAC
CATAAGGGGT GACTTCAGCG TCCACATCAG CAGGAATGTC ATCCACGCCA GCNACTCCGT GGAGGGGGCC CAGCGGGAGA
TCCAGCTGTG GTTCCAGAGC AGTGAGCTGG TGAGCTGGGC AGACGGGGGC CAGCACAGCA GCATCCACCC AGCCTGAGGC
TCAAGCTGCC CTTACCACCC CATCCCCCAC GCAGGACCAA CTACCTCCGT NAGCAAGAAC CCAAGCCCAC ATTNCAAACC
TTGCTTGTNC CAAACCACTT ACTTCCCTGT TNAACTTTTG CCCCANCCCA

SEQ ID NO:1682: (Length of Sequence = 397 Nucleotides)
ATGTAATCCG CTGCACCAAA CACACCTTCA CCAACCACAT GGTTTTTAAG TTTGACTGCA CAAACACACT CAATGACCAG
ACCTTGGAGA ATGTNACAGT GCAGATGGAG CCCACTGAGG CCTATNAGGT GCTCTGTTAC GTGCCTGCCC GGAGCCTGCC
CTACAACCAG CCCGGGACCT GCTACACACT GGTGGCACTG CCCAAAGAAG ACCCCACAGC TGTGGCCTGC ACATTCAGCT
GCATGATGAA GTTCACTGTC AAGGACTGTA ATCCCACCAC TGGGGAGACT GATGACGGAG GCTATGAGGA TGAGTATGTN
CTGGGAAGAT CTTGGAAGTT TACTTGTAGC TTGTTCACAT TCCAAAAGGT TCATGGAAAC TGAACTTCGA GCAGCCT

SEQ ID NO:1683: (Length of Sequence = 396 Nucleotides)
GGCTGCGCAG AGGAGCCGCT CTCGCCGCCG CCACCTCGGC TGGGAGCCCA CGAGGCTGCC GCATCCTGCC CTCGGAACAA
TGGGACTCGG CGCGCGAGGT GCTTGGGCCG CGCTGCTCCT GGGGACGCTG CAGGTGCTAG CGCTGCTGGG GGCCGCCCAT
GAAAGCGCAN CATGGCGGCA TCTGCAAACA TAGAGAATTC TGGGCTTCCA CACAACTCCA GTGCTAACTC AACAGAGACT
CTCCAACATG TGCCTTCTGA CCATACAAAT GAAACTTCCA ACAGTACTNT NAAACCACCA ACTTCANGTT GCCTCAGACT
CCAAGTNATA CAAACGGTCA CCACCATGGN AAACCTTACA AGCGGGCATT TTAATTNCAA ACANCAACCA GGGGAT

SEQ ID NO:1684: (Length of Sequence = 417 Nucleotides)
ATCCAGGGGA GATGCATGTG GAAATGTGGT CCTCTGGGGT CAGACCCCTG CACGGGACAT CTTGCCTTTN AGTGTGCAGA
GTACATGGGG AAGGGGCTGG GGGCACCACT GTGTACCTGG GCCCAGTAAG GCATTTGCCG TGATTCCCAC AACGGGGTCA
AAAGCTGGCC TTCAGGGTGA CCTAACACCA CCTCATGCCC TGCTATAGAC CTTCACAAAC GACTTCCACT GCTGAAGCCT
GTAGGCTCTG TTTAGAGACA AGAAGATGGC TGGTAATTTA AGCACCGATT TCCCAAGTGC CCACTCTCCT TTGTGCTCTG
TTGGCTTTTG GCCTAAAGCT TNNCCCAGAG TTAGGGTGTA GGATGTCTGT GGTCTGTGAG ATGCCTTTCC CTTCCCCCCT
CTGCTTCAAC CGTGGTT

SEQ ID NO:1685: (Length of Sequence = 429 Nucleotides)
GAGCCATGGA GAACTCTGAA AGGAAGAATC GCTTATTTNC TCAAGCAAAT CGGTTTCTTG ATGTCTTTTG GTTCTCCTTG
CCTGCNCCTG ATGCTTGGNC CCCTTTAATT GATCAGAGTG CTCTAGAATA ATGGATGGTC TTGGATGATG GATAAATAGG
GACAGGGACA GTTAAATTGG GAGCCTTTCT TACAACCTTN ATGGGATTTT CCCCCCCAAG TTTCCTTCTC CACTGAAATG
CCACACTAAT GCTTGTTGGG ATTCATGAGG TGGCCAGACC AATGTGTTGT TTTGTTGTTG TTTTTTTTTT AAGCTTCCCT

379

TGAGAGAATA AATGGGTAAT GGGAGGAGAA CTATTTTAAC AAGGGTCCTG GGTTTCTCTT TGCAAACACA GTAGGCTTAA
ACTTTGCCTG CTTTTTAAAA TGGCATTTT

SEQ ID NO:1686: (Length of Sequence = 445 Nucleotides)
TGTCTTCATA ATATAACAAC ACTAATACAC TAATAGTAAG ATTAAGTTAG GCAGTCTTCT ACCAAATGTG TAATGGAGAT
TGCCTCAAAA TTGTGTCCAC ATAATCCACG CTCATCTTGC AAAGCGCTAT TTCAGGCACT TTTTTTTGAG AAAGAGTCTC
ATTCTGTCGC CCAGGCTGGA GTGCAGTGGC GCAATCTTGG CTCACAGTAA CCTCTGCCTC CCGGGTTCAA GCGATTCCCC
CGCCTCAGCC TCCCGACTAG CTGGGACCAC AGGCACGNAC CACCACGNCC GGCTCACCTT TGTATTTTTA AGTAGAGATG
GGGGCCTCAC CATATTGGGT CAGGCTGGGT CTTCAATCTN CCTGGACCTC ATGNTCCACC CGCCTTGGGC CTNCCAAAAG
TGCTTGGGGA TTANAGGGAA TNGGGCCACC GGGGCTTGGG CCAAT

SEQ ID NO:1687: (Length of Sequence = 170 Nucleotides)
AAAAACCAAA TAAAGCAATA ACTTTAAAGA CCTCAGACAC ACACAGTATA AACACCTGGG TAAGGTTTTN TCCGTGTCCA
TGTTGACACC GGAACTACCG TTAAAGTGCA AGTTTTGTTT TGTGTTCCTT TGTGCAGTTT CACTCACATG TAAACAAGTC
ACTTGGCTAT

SEQ ID NO:1688: (Length of Sequence = 386 Nucleotides)
AATGTGATTT GATGTTAACA CTAGAGAATG ATGACTGTAG AACATTTGAG CAAGTAAAAT AGTAAAGCAC ATAGTGAGTG
TATGTCCATC TAACTGGTAC ATTGATAATT TAGTTTGGGC ACATAAAAGG AATATTTATA TGGCTTCCCA AATGCAGAGT
TACATCTTAT TCGTGTATTT CTCTGAGTAT TTATATCCCG TCTCCTTTTT TCATTCTTAA AAATAAATGA ATTTTCACTG
TTGGCACATA TGAGGCTTAA ATATAAGGAG CATAACACTT GCATTCTAAT TTTTGCATAT ATTGTAAATG TGTCTGGTAT
TTACAGCAAA ATACTGTGTA TCCTTTATGG GTAAACAAAG TGACATTGCA TGCATGTAAT GTGATG

SEQ ID NO:1689: (Length of Sequence = 400 Nucleotides)
CTTCTGTCGG ATCAGCGTAT TCCTAGATTA GGAATTCAAA TTAATGAAAA TTCACATATG AAAGGAAAAT CCATTGCTAT
TTCTGGAGAG GACCTCAGTC CTGGGCTTTT CCCTGGCATT GCTACCTGGG TGGGTGCTCA CCACTCAGGT GCTGGTGTTG
GAAGGCAGGA GGAGGAACCT GAAATCCTGC CGATTAAGGC TAATTAACAG GGTTTAGGTG CCTAATTATC ATGACTCAGC
CCGGGACTTA TGGTTAGCCG TGCAGGCCAG GTGAGTCTCT TATGGACTTC CTCTCAGACT GCTCTTTCTC ATTTTGTCCT
GATGAGATAT TGACAGTCAT GTCCACCCGC TTCCTCATCC ATTTCCCGTC TTTGGGCCCT GGGAAGTACG GGGGCCTCTG

SEQ ID NO:1690: (Length of Sequence = 337 Nucleotides)
AGTNATATAC CTTTAAAAGT AACTAATGCA ACTGCCAAAN AGGGACAGTG TCAATATCAT TGTNTTCATT AGAAGGACGG
CTGCCCCACA CTGTNAGAAC ACTGCTGTTC CTAACAGTAG TTTACTTTNA GAGGGATGTN AGAATTAGTT TNACCTTAAT
TCCAGATGTG CATGCCTCAA AAGAAAAATC CCATTCTCCT TCCTTTTGGG GAGCACTTTT GGTGGCACCA AGGCTGGTGT
GGGGTAGTGG AGAGAGCACT GAGCTTAGAG TCACAACCAG ATGAAACTGC TCTGGTCTTC ACTAGCTGTG TGACTTGGGC
AAGCAGCTTG CAGTCTC

SEQ ID NO:1691: (Length of Sequence = 372 Nucleotides)
TCATTCTCCC AAAGTGCTGG GATTATAGGC GTGAGCACGT GCGCCCAGCC TTACTTATTT TTAAATCAGA TTTTTTAATC
AACTAAAACA GCTATGAGTT AAGTACCTGC CCTGCAAANA TTTTTAGAAN AAGTTTTNGG ATTNNNNNNNNNNNNCAATNT
TTTCCTTAAC TGGAACAGTT CTAAAAATTTA TCTGATACTT CTCTAACAAG TGAGTGATCT CATGTAACCC CAGTTTGTAT

380

CTTAAAGGCT GCAGCATAGA ATTGAGCTGT ATAACAGTGT TAGAACTGTC AAGTGATAAT CACAGAACAG TTTGTATCGG
TTTTATAATT CTCATGTCTT GATCAGATCT GAAGGGAATA GGCATACCCT CC

SEQ ID NO:1692:   (Length of Sequence = 360 Nucleotides)
TTTTTTTGGC AAAAATAGTA TATATTTATT ATGTACAACA TGTATTTTGA GATATGTATA CATTGTGGAA TGTCTAAATT
GAGCTAACAA ATACATTATC TCACATACCA TGTTTTTTTG TGGTGACAAC ATTCAACAAT ATAGACCATT TCACAAATTT
GCATGTTATC TTTGTGCAGG GGCTATGCCA ATCTTCTCTG TATTTTTNCA ATCTTGGTGT ATGTGCTGCT GAAGCACACA
CCCTAATTCC TTTCATTTAA GGNTCTAGTT AACCTTTCTC TTAAGTATAA CCATGTATTT TGTTAAGCAA TATCTTTTTA
TTACAAAAAT GCCATTTTTT TCTGGNTAGG AAAATTGATT

SEQ ID NO:1693:   (Length of Sequence = 378 Nucleotides)
GACAAAAAGA GGGGTCTGGC TGCCGATGTG GAAATTTGTT TTGTGGACTT CACCGTTACT CTGACAAGCA CAACTGTCCG
TATGATTACA AAGCAGAAGC TGCAGCAAAA ATCAGAAAAG AGAATCCAGT TGTTGTGGCT GAAAAAATTC AGAGAATATA
AATTACTTCT TGTGAAGAGA CTGAAACTTT GTTTTTATTT TAATATATCG TAGGAAAACA TTAAAGAGCA GATGCATGGC
CATTTTTNCTT TGATGTTCTC CAGAGTTTTA CATTACACTT GTCTGTCTTA TAATTGATAT TTTAGGGATG TTTGGGTGTT
TGTTACAGGC AGAATTGGAT AGATACAGCC CTACAAATGT ATATGCCCTC CCCTGAAA

SEQ ID NO:1694:   (Length of Sequence = 362 Nucleotides)
AATGCACTTT ATTGGCTCCC AGGGAGTGGG ATGCAGGATC AGAGTGGACA CGCGCAGGGG GCTGGTGTGG GGAGCAAAGC
NCCGGGCCTG CCCCGGACCC TGGTTTCCCT GAGGACCAAC GTGAATGGGG GCCCCACTGG AAAGATGCTT GGGGCTGCAG
AGCGGATGGA ATGCAGGCCC AGGTTGCTGG GTGGTGCCCT CAGCTCCTGG CAGGGTTGAC GGGTGGTGGC CGCTGGGCTC
TGCCAGCCGA TGGTCCNCTG GCACCTGATC CTGTCTTCCA GCTTCACTTC CGGGCCTGCT CGTAGTTGTC AGTGAACCAA
GCACAGGTCT CCTTGACCGN CTGCTTTNAA GGGTGTGAAN CG

SEQ ID NO:1695:   (Length of Sequence = 411 Nucleotides)
TTAATACAAG GGGTTTGAAC TGGACATCCT AATGATGCAA TTACGTCATC ACCCAGCTGA TTCCGGGTGG TTGGCAAACT
CATCGTGTCT GTCCTGAGAG GCTCCACAAT GCCCACCCGC ATCGCCATTC TGTAGTCTTC AGGGTCAGCT GTTGATAAAG
GGGCAGGCTT GCGTTATTGG CCTAGATTTT GCTGCAGATT AAATCCTTTG AGGATTCTCT TCTCTTTTAC CATTTTTNCTG
CGTGCTCTCA CTCTCTCTTT CTCTCTCTAG CTTTTTAATT CATGAATATT TTCGTGTCTG TCTCTCTCTC TCTCTGTGTT
TCCTCCAGCC CTTGTCTCGG AGACGGTGTT TTCCTCCCTT GCCCATTATC TTTTCAACTC CCAGGGCTAC CCATTTCAAT
GGTGGGTCGT T

SEQ ID NO:1696:   (Length of Sequence = 280 Nucleotides)
CTTTGTGATG TTTTTACGCT TTACAAAAAG CAGATTTGGT ATTCAGAAAA GCCTGCAAAT ACAACATTGC TTAAGAGAAC
CTGTAAACAC GTTTGGAATA CAATGCAACA CAAGTCAGCA AGGACAGGGG TAGGTCCAAA GGAGCCAGCT AGGGGGAAAG
GTGACAGAAA AGGAGAGGGA AGGATGGNGA CAGACATCAC CTGTGGTCTC TAAGGGGGCC NTGTGTTTAA TTTATAAGGT
TTNCTNCCCA CAGGAGTTCT NNTGTGATCT ATCCGTTCAT

SEQ ID NO:1697:   (Length of Sequence = 418 Nucleotides)
ATTTCTTCAT TTACAAGAGG AATATATTTG GCTTCTCTCT TAAGACTCTC AGATTCACAA TCAGCAGCTC TAAAAAATAA
AGGAGCAGTT TGGCTTCCGG AAGGAAGAGG AGGCAACACT CGGACCTGGT CTTGTACAA CAAGAAAACA TCGCTGGGGC
CCCGCTGAGG CTGGAGTGGG GGTGGAGGCT GGTCTTTGGA GGATGCCACC CCCACCCCAT CCTCTTGTCA GGCCCTCGGG

381

GTACCCCAGA GCTTNGTGGG TGAGTATTCC ACCTGCTTAC ACACCACTGA AGCCACAGCC AGCCAGTAAC TAAGGGGCAA
GAAAGAGCAT TGTCCAAGCT GGCTCTTTNG GGGGGTCCCC CATTNGGCCA CAAAGGCCTC ACCCCCCACC CCATCCCCGT
AACCAGAAAC CACCTTGA

SEQ ID NO:1698: (Length of Sequence = 376 Nucleotides)
ATTTTTTATTG TTTATTTACT TATTTTTTAC CCTTTTTTCA AGAGATGGGG TCTCACAGTG TTGCCCAGGC TGGACTTGAA
CTCCCACTCC TGGGCTCCAG CAGTCCTCCT GCCTCACCTT TCCAAGTAGC TGGGGCTATA AGTACACACC ACCATGCCCA
GCAATATTTT AATTTCTGTA ATGTGTCATT TAGCCAGTGA TTGTTGTATT ATAATAGAAT CACAGAAATG GAGGGACTCC
TAGAGGTAAT CAAATCTGGT GGTTTTTAAG CCTTTTATTC CCTCTAAAGG GATAGTAAAA CCATTAAAAA TATAATTTTT
CCCAATTATG TAAGCCAGRG AAAGCTGACC TYCTGGTTTA GAGAGGAACA CAGATG

SEQ ID NO:1699: (Length of Sequence = 365 Nucleotides)
GGTACATGTG CACAACGTNG GNGTTTGTTA CATATGTATA CATATGCCAT GTTAGTGTGC TGCACCCATT AACTCGTCAT
TTAGCATTAG GTATATCTCC TAATGCTATC CCTCCTCCCT CCCCCTACGC CACAACAGTC CCTGGTGTGT GATGTTCCCC
TTCCTGTGTC CATGTGTTCT CATTATTCAA TTCCCACCTA CGAGTGAGAA CATGCTGTGT TTGGTTTTTT GTCCTTGCGA
TAGCCAGATG CAGCTACTCT TAATGTGCAT ATTTTCATCC TAGAACATTG GAGAGTTCCT GTAAAAGCCT TGTGTTCCAG
GAGGAAGGAG ATCCTGACCC TTCTGCTGAT GGCAGCAGTC AGGGG

SEQ ID NO:1700: (Length of Sequence = 397 Nucleotides)
AAAGGCAGTC AAGCAGGAGT TAAACAATAT GGACCTAACT CTCCTTATAT GAGAACATTA TTAAATTCCA TTGCTCATGG
AAATAGACTT ATTTCTTATG ATTGGGAAAT TCTGGCTAAA TCTTCCCTTT CACCCTCTCA GTATCTCCAG TTTAAAACCT
GGTGGATTGA TGGGGTACAA GAACAGGTAC GAAAAAATCA GGCTACTAAT CCTGTTGCTT ATATAGATGA AGACCAATTG
CTAGGAAGAG GTCCAAACTG GGACACTATT AACCAACAAT CAGTAATGAA AATGAGGCTA TTGAACAACT ATAAGAGCTTA
TTTGCCTCAG GGGCCTGGGA AAACATTCAG GACCCAGGGA ACCTCATGCC CTTCTTTTAG GTTCAATCAG ACAAGGT

SEQ ID NO:1701: (Length of Sequence = 245 Nucleotides)
GTCTAGGAGG AGGCCTTCTG CACAGAGCCC CTGAAGAACA CAGGCAGAGG CCCCCCACTT GGCTTCTACC ACGTCCAGAA
CATCGCAGTG GAGGTGACCA AGTCCTTCAT TGAGTACATC AAGAGCCAGC CCATTGTTTT CNAGGTCTTT GGCCACTACC
AGCAGCACGC GTTCCCGNCC CTCTGCAAGG ACGTGCTCAG CCCCCTNAGG CCCTCGCGCC GTCACTTCCC TCGGGTCATG
CCACT

SEQ ID NO:1702: (Length of Sequence = 349 Nucleotides)
ATCTGTTGTC AGCACAGTTT TATTTGCTGT GGAATCCATG AGAGCCGGAA GCATCGTTGG GGCCGTGGCT AGCAGAGCTC
ATGGTGACCA GTCCTGGGCC TGACCAATGG GTGATTACAT TTAAAAACCA AAACAAAACA AAACAAAATA CCAAGAACAG
ATCACTTGCC ATGGACATCA GTAATCTATT GGTAATGGTG AAAATTTCAT GAAAATTTCC CCTAAACCAT AACAAAAACT
GTCCTCCTTA CCCCAAAAGT GCTGGAGGGA AAGATGGTTG CATGGCTTTG ACCTCTCTTT GAACTTGAAA TGCTACCTTC
CTACCCGGAA AATGCGGCAC ACTATACTT

SEQ ID NO:1703: (Length of Sequence = 419 Nucleotides)
GAGCCCCTGC CCTCCAGAAG CTGACATCCT CCTACTCATG GCAGACAAAT AAACGTCAAT TACACTGGAG CGAGCTTAGT
GTGGCAGCAG ATGTAGTATG CAGTGCAGAG GTGGCCATGG TTGCNAGGGC AAGGAGGGCT TCCTAGCATG GCGGTTATTT
GACCAGAGGC TGGCGGTGGC TTTTGCTAGC AGTGTGATTG TNATCTGAGC CAGGGACAGA TACCTCTNTG AGCCTTGGTT

382

TCCTCATCTG TAAAGTGGTT AAAGACTGAN TAAAGCAAAA TATGTGCAAA CAGTCTGTGA ATGGGGAAGT AACAGATGTT
GCTTTCTATT ATGTTCTCTC CTAGCCATGA ATATCAATTA TTTCAGAAAT GAAAAGGGAT CCTGCACCCA ATTTCAAATC
AAGCAAGTTC ACCTAGAGG

SEQ ID NO:1704: (Length of Sequence = 372 Nucleotides)
GCTTCCCGAA GGTCTTGGAC GAGCGCTCTA GCTCTGTGGG AAGGTTTTGG GCTCTCTGGC TCGGATTTTG CAATTTCTCC
CTGGGGACTG CCGTGGAGCC GCATCCACTG TGGATTATAA TTGCAACATG ACGCTGGAAG AGCTCGTGGC GTGCGACAAC
GCGGCGCAGA AGATGCAGAC GGTGACCGCC GCGGTGGAGG AGCTTTTGGT GGCCGCTCAG CGCCAGGNTC GCCTCACAGT
GGGGGTGTAC GAGTCGGCCA AGTTGATGAA TGTGGACCCA GACAGCGTGG TCCTCTGCCT CTTGGCCATT AACGAGGAGG
AGGAGGATGA CATCGCCCTG CAAATCCACT TCAACGTTCA TCCCAGTCCT TC

SEQ ID NO:1705: (Length of Sequence = 426 Nucleotides)
GATGCCTTAT TTAGTCCATT TGGTGAGGTA ATGTTTTCTT GGATGTCCTT GATGCTTGTA GACATTTGTT GATACCTGGG
CATTAAAGNG TTAGGTATTT ATTCCAGTCT TCACAGTATA GGCTTGTTTT TAGCCATCCT TTTTGAGAGG ACTTTCCAAG
AATTCAAAAG GGATTGAGTG TTGTGACCTA AGCCTATGGT CACTGCAGCC ATTTCAGCAC TAGAGAGTGC CCTAAGCCCC
GGAATGCTGC AACTCTTACA GACTCCTTGA TACACAGCTT TGGTAGATTT TGGGAAAATA AGGGAGAATT CCCTGGGGTT
ACCAGGTAAA AAGTCTCTCC CACTTCCCTC TCTTTCTGGC AAAGGAAGTC AGTCTCTGCA CCAGGCTGCC TGGAGTTTGG
GGGAGGGATA AGGCGGTCAC TCTAAT

SEQ ID NO:1706: (Length of Sequence = 412 Nucleotides)
ATTTTATTTC CTTACATCGA AGAAAATGTT AAAGAGTATC TNCAGACACA TTGGGAAGAA GAGGAGTGCC AGCAGGATGT
CAGTCTTTTG AGGAAACAGG CTGAAGAGGA CGCCCACCTG GATGGGGCTG TTCCTATCCC TGCAGCATCT GGGAATGGAG
TGGATGATCT GCAACAGATG ATCCAGGCCG TGGTAGATAA TGTGTGCTGG CAGATGTCCC TGGNTCGAAA GACCACTGCA
CTCAAACAGC TGCAGGGCCA CATGTGGAGG GCGGCATTCA CAGCTGGGCG CATGAAAGCA GAGTTCTTTG CAGATGTAGT
TCCAGCAGTC AGGAAGTGGA GAGAGGCCCG AATNAAGGTG TACATCTATT CCTCAGGGAG TGTTGAGGCA CAGAAACTGT
TATTCGGGCA TT

SEQ ID NO:1707: (Length of Sequence = 434 Nucleotides)
GTGTGTCTGC AAAAAAAAAA AAGATTCTAG GCATGGTGGT GTGTTGACTG TAGTTCCAGC TACTCCAGAG GCTGAGGTGG
GAGGATTGGT TGAGCCTGGG TGGATGAGGC TGCAGTGACC CATGATCATG CATGGGAGAC AGAGCAAGAC CTTGTCTCAA
GAAAGGAAAG AAATCACTGG CTCTTCTGTA AAAAATGATC TGTTAAGAGT AATTGAAAAA ATAAATACAA GTAATAAAAT
AATCTTTCAT TTAAGAAATA CTACCAAAAT TAACATGGAG ATCTAGCAAA AAGTCAAAAG CAGCTNGGCG TGGTGGCTCA
CACCTGTAAT CCCTACACCT TGGGGAGGCT GAGGCGGGAG GNTCGCCTGA GGTCAGGAGT TCGAGACCAG CCTGGCCAAC
AGAGCCAAGT CTCTACTTAA ATACAGATTA GCTT

SEQ ID NO:1708: (Length of Sequence = 440 Nucleotides)
GGACCAGGAC TCCAGCACCT TCCCTGGCTG CATCAACAAT GCCACACTCT TTCAAGATGA GATAAACTGG CGCCTCAAGG
AGGGACTGGT GGAAGGCGAG GATTATGTGC TGCTCCCAGC AGGTGCTTGG CATTACCTGG TCAGCTGGTA TGGTCTAGAG
CATGGCCAGC CACCCATTGA ACGCAAGGTC ATAGAGCTGC CCAACATCTA GAAGGTCGAA GTGTACCCAG TAGAACTGCT
GCTTGTCCGG CACAATGATT TGGGCAAATC TCACACTGTT CAGTTCAGCC ATACCGATTC TATTGGCGTA GTATTGCGCA
CAGCTCGGGA GCGGTTTCTG GTGGAGCCCC AGGANGACAC TCGGCTTTGG GCCAAGAACT CAGAAGGCTC TTTGGATAGG
TTCGTATGAC ACACACATCA CGGTTCTCGA TGCGGCCCTT

SEQ ID NO:1709: (Length of Sequence = 404 Nucleotides)
TTTGTCTTAT GTAGAATTGC CTATAGTAAG AAAACCCAGT AGAGAAAGTG GTTTTNAGAC CATTCGGCAG CTGCTTTGGA
CACCTGGAGC CATTTCTTTT ACAGATGAAG ATGCATTGTG TCATTGTCTC AGGATCCTCG TCCTGTTGCT TCTCTGGCCA
CAAATTGTTC TTTACCAAAG ATGATTTTAT TTCACTGTCT TTGAAAATCA TTCTTTATAG GTAGAATATG AAGATTCTCT
GAAATGATTC CAAAATGCCA AACTCAAACA CTATTGTCCG ATTTCTTTAC TTGCAACAAG AGAGTAGAAG GGACAGTATT
TGTTTTGTGA TGTTGGGGCG TTCATCAGGG AGAGAATTTG AGATAAGTAG GAATAGCAAA TAGGAATAGT GAAATAACCT
AGAT

SEQ ID NO:1710: (Length of Sequence = 187 Nucleotides)
GGTGATCTGC CGACCAGAGG CCTTAAACTC TGGTGTTGAG TACTACTGGG ACCAGCTGAA CGAGACGGTC TTCACTGTCC
ATTCCAACAG CAGGAGCAGC GAGCGSCTGG ACCAGGCAGA GCACATGGAG GACAGCAGAG ACATGGGCTG ATGAATGCAT
TGGGCTTCAG CCGACCTGCA CTCAGTG

SEQ ID NO:1711: (Length of Sequence = 313 Nucleotides)
AGGGGCATGT NATCATTTNA ATGATGTNAT CTTTGGTGTT TCCCTCATTA GCTGTAGACT ATCCCCTCTC CTCCCACCAC
AATGTTTCTA TGATGAGTTA CAAACAGAAA GGAAATCACA TTTTCATACT AAAAACAAAA TGATCAGAGC CTTGATTTCT
CCACTAGAAA CTACACGTAC AGTTAAGAGT CCACATGCAA CACCTTAAAT CACAGACTGA GGACCTCACA TTCTGACCTG
GGAGTCTCCT CCCCTTCCCC AGCCTTGGGC TAGCTTTGGC CTAGGCTCAG GTAATACTGA CACCCACAGG CGT

SEQ ID NO:1712: (Length of Sequence = 202 Nucleotides)
TTTTGGTGGT TTCCTCTTTA TTGTGTGCCT CCTACCTTCC CCCACAATTT CAGTCCCTTC CAACACCCCA AAAAGAAGGA
GTGAAAGGAA GGGATTGCTG GGGTTCTGAG CCCTTGGCAG TCAGAAGGAC AGAACCAAAC ATCACTGGAT GTGACACAGC
TGCATCAAGA AGTCTACAGC AGTATGGGAA GCGGCAGAGA AG

SEQ ID NO:1713: (Length of Sequence = 253 Nucleotides)
TGATTCANTG GGTCTGGGAT AGAGTCTGGT ATTCTGCATT TCTGACTAGC CTCCAGGTGA TACTGATTCT CCTCATCTAG
GGACCTCGCT TTGAGTAGCA AGTGTTTAGG CCACTTACTA GCAGGAACTA AGCACAGTAT CCTACAACAG CAAATGTCTT
TCCAACAAGA AAGACGAGAG CAAATNCTGA TGCCACATCT GCACTGCCTC AGAAAATAAA GAAGGGATGA GGAGCCCCCC
AGTGGCACTC TGT

SEQ ID NO:1714: (Length of Sequence = 299 Nucleotides)
GGTGCAGCTG CTTTGAAAAA TGACTTGGCA GCACCTCAAA ATGTTAAACA GAGTTACCAC ATGACCCAGT AATTTCACAC
TTAAGGATAT ACTCAAGAGA AATGAAAACT AAAAACATAC GGCTACCCAA AAACTTACAT AAGANTGTTC ACAGCAACAT
TATTCATAAT AACCAAAATA TGGNAACAAC CACAATGTCC ATCAATTGAT AAMTGGGTAA AGTCTGGCAA ACTCACAGRA
TGGRATATTA TTTGGTGGTA AAAAGGAGTA AAGAACTSNT ATGTACTACA ACATGGGTG

SEQ ID NO:1715: (Length of Sequence = 371 Nucleotides)
TTTTTTTTAC CGGGGCGTTC CTGAGTTTAT TTGGGGCACA CCCGGACGAG GGCCCTGCAC CTAGAAGAAG GTGTTGGGCC
.CTTGGTGGT GAAGCGTGGC TTGTGCTGAC GGCGTAGGAC CCGGTGGGCC AGCGGGAACT TCTCTTGCA GTCGTCGGAC
TGCTTGACAG CCGGCCGGCG GCACTTGCTG GCCGCGATCT CCTCCACCTT CATGATCTGA ATGGAGTGGG CTCGGGCGCG

384

GTGCCGGGCA CCCATGTCTC GGTAGCACTG GGTGACAGCG CCTGCGGTGG TCAAGTCCCG GTATTCCCGG TACATGTTGT
GGGTGCCGCT CCGGGAGTCA TAGCGCAGCA AGATCCCGAA GTTCTTCAAC C

SEQ ID NO:1716:   (Length of Sequence = 265 Nucleotides)
GTGCAGAATC TGCTCCTGGA CACCCACAGG GGGCTGCTGT ATGCGGCCTC ANANTCGGGC GTAGTCCAGG NGCCCATGGC
CAACTGCAGC CTGTACAGGA GCTGTGGGGA CTGCCTCCTC GCCCGGAACC CCTACTGTGC TTKGAGCGGC TCCAGCTGCA
AGCACGTCAG CCTCTACCAG CCTCAGCTTG CCACCAGGGC GTGGATCCAG GACATTGAGG GAGCCAGCGN CAAGGACCTT
TNCAGCGCGT CTTCGGTTGT TTCCC

SEQ ID NO:1717:   (Length of Sequence = 350 Nucleotides)
CAGCCCCCGC AGCCCTCTGG CCCCCTCCAT CTCTTGTCCG TTCCCACCCA CCCCCCTCCT CGGCCCGAGC CTTTTCCCGG
TGGGTGTCAG GNTCACTCCC ACTAGGGACT CTGCGCTAAT TACCTGAGCG ACCAGGACTA CATTTCCCAA GAGGCTCTGC
TCCAGGAGTC CAGGAAAGAC GAGGCACCTT GGCCGCGGGG CCTGCTGGGA CTTGTAGTTG CCTAGACAGG GCACCACCCT
GCACTTCCGG ACCCGCGCTG GAGGCGCCGT GAGGTTTGGT GTCTCGAAGC AGCAATTAAA AAGCAAGAGG ACTTCATGAC
CACCATGGAC GSCAATTAGG AGAAGATCAA

SEQ ID NO:1718:.   (Length of Sequence = 379 Nucleotides)
GACATGGAGA CTCACATGGC TGCAGAACAC TGTCAGGTGA CCTGCAAATG TAACAAGAAG TTGGAGAAGA GGCTGTTAAA
GAAGCATGAG GAGACTGAGT GCCCTTTGCG GCTTGCTGTC TGCCAGCACT GTGATTTAGA ACTTTCCATT CTCAAACTGA
AGGAACATGA AGATTATTGT GGTGCCCGGA CGGAACTATG TGGCAACTGT GGTCGCAATG TCCTTGTGAA AGATCTGAAG
ACTCACCCTG AAGTTTGTGG GAGAGAGGGG GAGGAAAAGA GAAATGAGGT TGCCATACCT CCTAATGCAT ATGGATGAAT
CTTNGGGTCA GGATGGAATC TGGATTGCAT CCCAACTCCT CAGACAAATT GAGGGCTCT

SEQ ID NO:1719:   (Length of Sequence = 197 Nucleotides)
CCTATATTTG TTTAATTTAT TTAAGACCAC CTCCTTACAA CTTCCAGAGA GAAAATACAA AACAAGAAAC AGACTTGGTT
TCAAATGCAT AACCAGGTGC TGGAGTTTAA AGCATTACTG ATAACATTGT TACAGAAGAA TGGCAGCTTA CTCCAGGGCA
CTTCAGTATT CCTGAGGAAT AAACATGATT TCGGAAG

SEQ ID NO:1720:   (Length of Sequence = 203 Nucleotides)
GAGGGCGGGG CAGAGGGAGC ATGACGGGGA GAGTGAGGAG GAAAGAGGAA AGGAAGGCCA GGGTGGGAGG AAGGATCANC
TAAATCTGAG GGAAGAAGAA GGAAAGGAGA GGGCCTATTT CATAGCAGAT GCAAATRAAG GGNCTTGGGG CTAKTCAGGA
AGAAAGGGAA AGGGAAGGAA GGCAAGAGAG AGGGGTGAAG GGA

SEQ ID NO:1721:   (Length of Sequence = 326 Nucleotides)
GGTGCAGCGA TGTTTAATGG CAATTCGTAT AAACCAAGCC CATGCACAAG TAGAAAGTGC CCGTGGAGCC GGCAGGAGGC
CCCCGCCGCG NTAGAGAACC ACAAGCCCGG CCGTGCAGCC CTCCCCGCGG CGCCTTAAAT AGATTCTTCA CTATACTCTG
TATGTTACAG TATGTACAAG ACCCCTCCCC TCGGGGACG GGGCGGACTN CGCAACGNGT TCCTATGTAC ACCACCTCCC
CTTTCGGCCC TGAGGTCAGT GGCCAGAGTC GGGTGATGGG GTAAGANAGG GCCAGAGAGG GAGGAAACAG ACGCAAACAT
GCGGAG

SEQ ID NO:1722:   (Length of Sequence = 291 Nucleotides)

TGTTTTTAAA AATGAGAAAA TTTGGAGAGA GAATACTATT ATGTCAACGG TACAAGACTC TGAATCTTGA AGATGTAGAT
GGATATAATA TTTAGACTTT ATATACACCC ATAGATATGT ATTTATATAT GCATACGTTT TGTATAAATT TACAATTGAC
TTTTTGTATT CTCTTTNCTG TCATTACAAG AATGAGATGG AAACCAAAAT AGTTGTNCCA TCCTCTTACC CAAAGAGGGA
TACTGAAAAG TCCGGTATGT GCATGCACTT GTTTCTCTGG GGTCAAATCT G

SEQ ID NO:1723: (Length of Sequence = 369 Nucleotides)
GATTGCCCGC TCCCTCGATT CCTTCCTGTT GTCTCCAGAA GCTGCTGTGG GCTTGCTAAA AGGGACAGCA CTTGTCCTAG
CCCGATTACC TTTGGATAAG ATTACCGAAT GTCTTAGTGA ACTATGTTCT GTTCAGGTTA TGGCATTGAA AAAGCTGTTG
TCTCAAGAGC CCAGCAATGG CATATCCTCA GATCCCACAG TGTTCTTAGA TCGCCTTGCA GTGATATTTA GGCATACCAA
TCCCATTGTG GAAAATGGAC AGACTCATCC GTGTCAGAAA GTCATACAGG AAATATNGCC AGTTTTTATC CGAGGACTCT
AAAATAAGCA CCGAGCTGNA TAATCGGATT GTAGAGCGTT GTTTGCAGG

SEQ ID NO:1724: (Length of Sequence = 231 Nucleotides)
ATGTATTGTT AGTTCGATTC CTTCAAATTT TATACATATT TACTTTCTGT TAAAGAGAAA AGGATAAAAT GGTATAAAAA
AAGATAAAGC TATTAATTAA GCACGAGAGA GAAGATAAAT GGATATTTTC CCTGTGTGAG GCTAAGACAG AWGCAAATCT
CGTTANGAAA AATGCCACCC ACACAACAGG AANTTTATCC AAAACAAAAC AAAAGCAGTT ATAGANCCCC T

SEQ ID NO:1725: (Length of Sequence = 317   Nucleotides)
GTGCAGGGTA GGGTACATAT GGCTCTGTCA GAAGAATACC ATGATTTAAG GGAAGAAAGT ACACAAGGTA CATGGAGGGT
ACACAGGGAA AGTACAT. A TAAACATGGA CGTGTGCAAA TAGGAAAGAC ATGACTCAGC ATGCTAGACA AATTGCACAT
GCCTACCCAA ACACGCT..A GGGCAGACCC ATGACCATGA GAGGGGCACA CGTAGCTGTG AATGCAGGGC ACCCGAGAGC
ACATGTKACT KAACATGAAG AAAGCATACG GGAAAAGCGT GTKTACACAT GNGCATGTTC AGTGGGGCAC ACGCAGG

SEQ ID NO:1726: (Length of Sequence = 282 Nucleotides)
CTCTTGAACC AGATGAGCAG CCACCGGAAA CAGAAGCAGA GAGAGCCGGA GTCCTGGGAA TCCAGGAAGT CGCAGAGCAG
GGGGTCCAGC ACCCTCAGGA GCAGCAGCAG TCGCCCGAKT TGCCGCTTCA TGGTCTCCTG GCTCTCTTCA AAGTTCCCTT
GCACGAGCTC CATGAAGCCA CAGAAACACC AGAAAGCATC CACCTCGTTC TGAATGACGT AGAGGATCGG GGAGAGAAGA
TCACTCATGC CCTGGACGTA GCCGAGGTCG AAGTGATACA TT

SEQ ID NO:1727: (Length of Sequence = 285 Nucleotides)
GAGTATTGAT TTCAGGCAGG ACCCAGGTCC CAAAATGTTA GAAACAGTTA TCCTTTTTCC CTCTGAGTTC GTTATTCTCT
GGGGCCCCAG TATCCGTGGC TTAACAACCC GGCTGGATAG AAGGCACCTC TTTCCCCACG TTCCAACAAG ATCCCAGAGC
TGCTTCTCAT TGGCTCGTCC CTGAGTCAGT CACACTGGAC CGGAAGGTGA AAGGCCCTCA TTGGCCAGNC CCGAGTCATG
TGCCCACCCC TGGGGATCCA GCTGTGGGNC TNCTTTAACA GCATT

SEQ ID NO:1728: (Length of Sequence = 394 Nucleotides)
TTTTTTTGAT GAGGAGATAT AGCAAAGGGT CATTTGCCCC TCCTTCAGAA AACTTTTCTC CAAATCTCCT TTAAACATAC
TGCCTTATCT TTCCCTCCAT AACTCCACCA GTCTCTCCAC ATCCCCCTCC AAATCTCTGT ATACATAGGC AAGAGAGGGC
GATTCCCAGC ACAAGTCTAG TCCTGGGCGA AACTTCCATC TCTTTCCTCG CATACCTCCT GTCTGGGTAT GGGGATAAGG
GAGAGTATGG GATTTTGTTC TCCATTACAT GCTTTTTCAA AATTTCTGTA ATATGTGGCA CTTATAAAACT AGAACAGAT
AAAATGATAT CGGGTAAAAC ATGCAACTGA GAGCAATTTG GGGAAAAATC CTCAGGNCAC AAAATGTATT ACTG

SEQ ID NO:1729: (Length of Sequence = 301 Nucleotides)
GGAAGTTAAA GTATTTATTG ATGTGTTTAA ACTGTGTACA TTCTCCACAG ATCATATTAA GGNGTTTKTA GGKGAAGTTT
AATCTGTGCA TAGTGGGTAG YGACATGAWT AGGGTCAAAG GGGAGGYAAA AGGAAAAAAA CAAAACAAAA ACAGTCACAG
GAAAWTAAAA ATACACCMCA GGTTACCAGA ACCTTCAGGT TTAAAATAAA ANGNAAGNAA AAGCAGAAGC AGTGAGCATC
GGCATCAACC TGTACAAGCA TTACAAAAGG CTCCTGTGAC GGAAACACAA TTGTTCAAAG G

SEQ ID NO:1730: (Length of Sequence = 312 Nucleotides)
GACGRACGCT CTTGCCACGC CCTGAGCGTG TACACATGAT GTNTTCTATG CATTCACCCT GCCCCCCAGC CCGCCCTGCA
GAGGACAAGA TGGGTGGCCC CGGCTCCCTT TCCCCTAACC GCCCCTGCCC GCTGTGCAGC CGTGTGCGTT GGCGTGTGTT
TCTGTGTCAC TGGCGTGTCA CGTGATGTAG CCGTGTTTGC TGACATGAGC CCCTGCCCCC TTCTCTGTTT CTCCGTTGGT
TTCTAGAGCT CTCTCCCTCC CCTTCTCAGA GGGGACAGGA CTCCTGGGGT CTGGCTCGGG CCCAGAGCCA GG

SEQ ID NO:1731: (Length of Sequence = 392 Nucleotides)
ATCGGCTATG GGTTCCGGTG CGTGACAGAG GAGTGCCCGC TGGCAGTCAT CGCTGTGGTG GTTCAGTCCA TCGTGGGCTG
CGTCATCGAC TCCTTCATGA TTGGCACCAT CATGGCCAAG ATKGCGCGGC CCAAGAAGCG GGCGCAGACG TTGCTGTTCA
GCCACCACGC GGTTATTTCG GTGCGCGACG GCAAGCTCTG CCTCATGTGG CGCGTGGGCA ACCTGCGCAA GAGCCACATT
GTGGAGGCCC ACGTGCGGGC CCAGCTCATC AAGCCCTACA TGACCCAGGA GGGCGAGTAC CTKNCCCTGG ACCAGCGGGA
CCTCAACGTG GGCTATGACA TCGGCCTTGA CCGCATCTTC CTGGTGTCGC CCATCATCAT TTTNCACGAG AT

SEQ ID NO:1732: (Length of Sequence = 352 Nucleotides)
GTACCTAGTA CCTTAGATAA AGGGAAATGT GTGATTCTTA ATGAGCTTTA AAAGGAAACA ACTTCTTTTT TTTTTTTTTT
TTTTTGAGAC GGAGTCTCAT TTTTGTCCCC CAGGCTGGAG TGCAGTGGCG CGATCTCTGC TCACTGCAAG CTCCGCCTCC
CGGGTTCACG CCATTCTCCT GCCTCAGCCT CCCGAGTAGC TGGGACTACA GGCTCCCACC ACCACGNTCG GCTAATTTTT
TGTATTTTWA GTAGAGACGG GGTTTCACCG TGGTTAGCCA GGATGGTGTC GATCTCCTGA CCTCGGTGAT CCACCCACCT
CGGNCTCCAA AAGTGCTGGG GATTACAGGC GT

SEQ ID NO:1733: (Length of Sequence = 321 Nucleotides)
TTTTTGTTT GTTTGTTTGT TTGTTTGCAG AGTCTTGCTC TTGATCTATC TCCCAGGCTG AAGTACAGTA GTGTGATCTC
GGCTTGCTGC ACCCTCTACC TCCCAGGTTC AAGCAATTCT CATACCTCAG CCTCCTGAGT AGCTAGAACC ATAGGCACAC
GCCACCATAC CTGCTAACTT TNCTATTTTT AGCAGAGACT GGATTTTGCC ATGTTGGCCA GGCTGGTCTC GAACTCCTGG
CCGCAACTGG ATCTGCCCAA CTCAGCCTTC CAAAGTGCTG GGATTACAGG CATAAGCCAT TCATGTGCGG TTKTTCAACT
G

SEQ ID NO:1734: (Length of Sequence = 208 Nucleotides)
AAGTCAACGT ATCTATTTTT ATTATGAAAC ATTAAATTTT GACACATTGC CTCATTTGCT TTTTTAAAAT CTATTATCTG
ACTTAAACCT ATTCAGCAAA AATGCCAATA AATTATATTA ATCATACTTT GGGTCTTTTT AAAACTAGGA ACATAATATG
TTTTATGATA AACAATAATA CTAAATCTGA GTTGTATGAA CTGTTAAC

SEQ ID NO:1735: (Length of Sequence = 347 Nucleotides)
TCTATTACCT GTACAGTATG GTTTATACGT TGGTGAGTTT CTAAGGGGGA AGCCGCGCAG GGAGCGAGCCGCAGAACGGAC
CGGACGCCTG TNCACCCCCA GCCCTGCCCC TTGGCCGCAG AGGCCTCAGC CCTGGGGAGG GAGGGGGCAC TGGTGCCCCC
AGCCTCTCCA ACCCCCAAAC TGCTGCTGCG GGGAACCCCC CCCACCCCGC CTTCAGAGCC CTCCCCCTTG GACTAGAGCG

387

GCTGGGCAGA GCTCTAAACA GGGGCAGGGG CTCCTCTGCC AGCCTGTGGG CATGGCAGTC ATTCCTGGAA GGGGCAGGAC
CTCCGGCCTT GTCCATTTCG GGGGGAA

SEQ ID NO:1736: (Length of Sequence = 356 Nucleotides)
GACACAGGGA GGGGAACAAC ACACACTGGG GCCTGTTGGG GAATGGGGGG TGAGGGGAGG GAGAGCATCA GGACAAATAG
CTAATGCATG TGGGGCTTAA AACCTAGATG ATGGGCTGGG CGTGGTGGTT CACGCCTATA ATCCCAGCAC TTTGGGAGGG
TGAGGCGGGC GGWTCACGAG GTCAGGAGAT CAAGACCATC CTGGCCAACA TGGTGAAACC CCGCCTCTAC TAAAAATACA
AAAATTAGCC AGGCATGGTG GTGCGTGCGT GTAATCCCAG CTACTCAAGA GCCTNAGGCA GGAGAATCAC GTGAACCTGG
GAATCGGAGG TTGCAGTGAG CCAAGATCAT GCCACT

SEQ ID NO:1737: (Length of Sequence = 324 Nucleotides)
TGTTTTCTAA TGATTTTTAA TTTTTCAGAG GAAAATAATT TCAAGAAATA AAACTTAATT CCCCTGAGTC CTTATTGAAT
TAAATATTGA AAAACAATGA ATGAATGATG CATTCTTATT AATGGACTGT AAGAAACTGA TATAATGGAC TTCATTCTAC
AATTCGGTTT CTTATTGTCT TACACATGCT CCTCGAACTT AAACATTTTA GGACCTTAAC ACCATTTCCC TAGTACAATT
ACTAAAAGAA AGCTTTGGAT AATATAATAT CAGGGAAGAT AGTACAACAT AGTGAAGGAT GACATAGGGN AGATGTGAGG
AGCA

SEQ ID NO:1738: (Length of Sequence = 316 Nucleotides)
GGCACCCTGG GCATGTCCAG CCTGGAGCAG CTGGAGCAGA ACTTGGCAGC AACAGAGGAA GGGCCCCTGG AGCCGGCTGT
CGTGGATGCC TTTAATCAAG CCTGGCATTT GGTTGCTCAC GAATGTCCCA ACTACTTCCG CTAGGCCCAT CATGGCTCAG
GCTGCCCAAG GCTTTTNTGT CACCTCTTTT GTTCTCTCAC ACTGACCAGT CTTGGCCTTA AGCTGACTTA GAAGGGTTTT
TCTGAATTGT CTAGATCCAT GCATTATTTT TCTAGCTTCC TGCCTTGCTC CCTATTCACT TTACACTGTG AAAGGT

SEQ ID NO:1739: (Length of Sequence = 398 Nucleotides)
CAAAAACCAT CTCAGGATAC TGAGAAGCCT CTGGAACCTG TGAGTACTGT TCAGGTAGAG CCTGCAGTTA AGACTGTAAA
CCAACAGACT ATGGCAGCAC CAGTAGTCAA AGAAGAAAAA CAACCTGAGA AAGTCATCAG CAAAGACCTT GTTATAGAGA
GGCCTCGACC AGATTCAAGA CCAGCAGTTA AAAAGAATC AACTTTGCCT CCCAGGACCT ATTGGAAAGA AGCTAGAGAG
AGAGATTGGT TTCCAGATCA AGGATACAGA GGTCGAGGCC GAGGTGAATA TTACTCCAGA GGGTCGAAGC TATAGAGGTT
CTTTATGGGA GGGGCGTGGC AGNGGGTTGG TAGGGGACA CACTTCGAGA TTATCCTCAG TATANGGGC AATAAGCC

SEQ ID NO:1740: (Length of Sequence = 376 Nucleotides)
GAATAAAATTC GCAAACTATG CATCTGACAG AGGACTAATA CCCAGAATCT ATAAGGAACT CAAAAAATCA GGAAGAAAAA
AAATCCCATC AAAAGTGGGC TAAGGACATG ANTAGACAAT TTTCAAAAGA AGATATGCAA ATGGCCAGAA AGCATATGAA
AAAATACTCA ACATCCCTAA TTATTGGGGA AATGCAAATC GAAACCACAA TGCAATACCA CTTTACTCCT GCAAGAATGG
CCATAATTTA AAAWTCAAAA AATAATAGAT GTTGGCGTGG GATGTGTTGA AAAGGGAACC ACTTTTACAC TGCTAGTGGG
GATGNTAAAC TACTTCGGCT ACTATAGNAA ANCAGGATGG GNGGATTCCT TAAAAG

SEQ ID NO:1741: (Length of Sequence = 322 Nucleotides)
CAAATGCAAA AATCAAGACT TGTCATAAAN TGTATCTCCA TAGCCTATAC TGTTTAAATT ACTNTAATAN TATTAGTAATT
CTTGATGTTT AATACAGCAA ATGTTAAACC AAGCTTTCAC TACAGAAATA AACAGAAATT TATAGGCGCT CATTATCCTT
TTAGACAAAG TTGTATTTGC TTTGCTATTR TTTTTGTTTA GGNTTTKTGC AACTATTTCA CAAACAGGNA CAAWRATATT

388

TAAATTGTTA ATAGAARTTT CCAGTTTTCT TTAGTCTCTG GCTACTCCAA GTACTGGTTG CTGTGAATGA CCTTTTCATG
AG

SEQ ID NO:1742: (Length of Sequence = 322 Nucleotides)
CCCCCCAGCC AGGAAAAAAA AAAAAAGCTT TGAGGAATGA GAGAGGGTGA GATGGGTCGA AGAAGGTGCT GGGCAGCCAC
GGGCGCCACG CCTCANTGGC CCCAATTGCC GAAGCCGATC TCCTGCTTGT ATCTGTTAGT GAGGATGTTG GCTTTGCGCG
TNAGTTTCGA GAGCACAGTG TGCAGCCCGC GCAGGTGGTA GTGGAACTNC TGTTCCAGGT CTTCTTCGCC GGCGTCCGAA
CCCTCCAAGT GGCCCAGGTC CACCAGGATG TCCTTGGGAC TTCCAGGCAC TGCCCTNCTC GNTCCCAAGC CGGTNGGAGG
CG

SEQ ID NO:1743: (Length of Sequence = 250 Nucleotides)
ATGGGTAGGG GGCCAACGCA GTCACCGCCG TCCGCAGTCA CAGTCCAGCC ACTGACCGCA GCAGCGCCCT TGCGTAGAGC
CGCTTGCAGC GAGAACACTG AATTGCCAAC GAGCAGGAGA GTCTCAAGGC GCAAGAGGAG GCCAGGGCTC GACCCACAGA
GCACCCTNAG CCATCGCGAG TTTCCGGGCG CCAAAGCCAG GAGAAGCCGG CCATCCCGCA GGNCCGNGTC TTTCAGCGAG
ACGNGAGTTT

SEQ ID NO:1744: (Length of Sequence = 247 Nucleotides)
GATGATTGAG TGTTTCTTTA AAAATAAAAA CCCCACAAAA AAGCCAGAAC ACCCTACCCA ACCCAGCCCA GTGTAACAGG
TTAGCCATTA ACACAGNATA AAGAWGGTCC CAGCCACACA CGTCATTACT CGGCAGAGGG TGTCCAGKCT GGTCGKCCGA
CGTCACAGTG GATGGCCCTG CGTGGCTGGG RCACAGACAG GGNGCAGGCA TGGCACCTTT CGNCACGCAG AGCAAGCATA
GGCTGTA

SEQ ID NO:1745: (Length of Sequence = 379 Nucleotides)
TTCTAAACCA GTTAATAAAT TCATTCCACA AGTATTTACT GATTACCTGC TTGTGCCAGG GACTATTCTC AGGCTGAAGA
AGGTGGGAGG GGAGGGCGGA ACCTGAGGAG CCACCTGAGC CAGCTTTATA TTTCAACCAT GGCTGGCCCA TCTGAGAGCA
TCTCCCCACT CTCGCCAACC TATCGGGGCA TAGCCCAGGG ATGCCCCCAG GCGGCCCAGG TTAGATGCGT CCCTTTGGCT
TGTCAGTGAT GACATACACC TTAGCTGCTT AGCTGGTGCT NNGCCTGAGG GCAGGGCAGG AAAATCAGAA TAGCATTTGC
TTTCTCTGGG GCAAAAATGG GAAAGTTCAG CGGGNNGCAG CAGGAATCAA GTGGGCATT

SEQ ID NO:1746: (Length of Sequence = 472 Nucleotides)
TTCATGCTGT CCCTTCATTG AATTTTAGAA TGATTGAAGA TAGTGGGAAA AGAGGAAATA CCATGGCAGA AAGAAGACAG
CTGTTTGCAG AGATGAGGGC TCAAGATCTG GNTCGCATCC GACTCTCCAC CTACAGAACA GCATGCAAGC TTAGGTTTGT
TCAGAAGAAA TGCAATTTGC ACCTGGTGGA CATATGGAAT GTCATAGAAG CATTGCGGGA AAATGCTCTG AACAACCTGG
ACCCAAACAC TGAACTCAAC GTGTCCCGCT TAGAGGCTGT GCTCTCCACT ATTTTTTACC CAGCTCAACA AACGGGNTGN
CAACCACTTC ACCAAAATCC ATGTGGAGCA GTCCATCAGN CTNCTNCTTA ACTTNCTGCT TGCAGCGTTT TGATNCCGGA
AGGCCATGGT AAAATTTTCA GTATTTGCTT GTCAAAAANG GGTTTTAGGC NCCATTTGTG TGGGAGGGGA AG

SEQ ID NO:1747: (Length of Sequence = 351 Nucleotides)
AGGATCAGAA TACTTTAATA AGATACCAGT GTCAAAATAC ATTTCCTTAT AAAGTTAAGC TCCCATACAG TTATAATGTT
GTCAGTAGGA ATTCGACAAT ATAATAACGT TCATGAAATC GTTACGTTGA CAGGTAGGGT TAATAGGAAG CTTGGAATAT
TTTCCAGTGT TTTAGTAAAA CTGCAAGGGT AAAATGCCCT TAATGCCAGG GCAACACACA CAGGNAATCA AATACCAGCA

389

TTTACACGNC AGTAACCCTT CAAGTTCTGC CACCCTGTGT GGGGGTAATG CCGTGCAGCT AAAAATATGG GTTTTACGNA
ACANCCATGG CCTAAGGGGA TTTCTCATAG G

SEQ ID NO:1748: (Length of Sequence = 428 Nucleotides)
AATAGCTTCA GCTGATTGGG TGAGTCCTAT TCATGTTATA AAAGGTACTC TGCTTTCCTT AACATTCCAT AAATCTTAAT
CACATCTGCA AATACCTTCA CAGCAACATC TAGACTAGTG TTTGACCCAA CAACTGGGCA CAATAGTTTA GCCAGTTTA
CACATAAAAC ATCATCACAC TATGCTTCTC TTCTGTGTTC TTTGTTACCA CGTATCTGTT CCATGTGTTT TNCTTTGTAT
ATATCCTATC CTGTCATATC TCTCCTATGG TTTTGTGGAA ACTATAAGCC TTCTGGGGGG TAAAACACTA TATCTTTGTT
CAATTGTTAA TACATCGNAT AGCATATCAT GCCTGGGGGC ATTGGTTAAA CCCCCCATTT AAATACAGCT NGGCAGCAGG
ATTTTAGGCA TTCCGTCATG GTGTGCCA

SEQ ID NO:1749: (Length of Sequence = 478 Nucleotides)
GGTTTCACCA TGTTGGCCAG GTTGGTCTCA AACTCCTGAC CTCAGGTGAT CCACCTCAGC CTCCTAAAGT GCTGGGATTA
AAGGCGTGAG CACNCACANT CACACCTGGC CCTCAACCAT CTCTTTCACC TTCTGCTCAT GACAGTTTAC TAGAATTTTT
TTCCCTTGAG ACTGAATGTT AAGTCAAAAA CAATAAAAAA TTGCTAATCA TTACTATGAC TCCAGAGCTA CTTGCTTCTT
TAANAATTCC TGAANTTATA AAATATAAAG CCAAAGCAAT GAATTTCTAA TGGTGGAATT GTAGACACTG TGGGCCCCCT
GGCNGTGTTA TTTTCAGATG GGGCAAGGGG ATATTCCTAA CCTATTTTTA AAATCATGCC AGCCTAGATA ACTATGTGAA
AANATATGG GGTGCTTAGC AAAACTATTA CCTAGCACCC CTTTGGCAGT TTTACATTAA AAATCCCTTT ATTAGGTT

SEQ ID NO:1750: (Length of Sequence = 439 Nucleotides)
GACATTTTAT TTCCAGGTTG GCACGTGTAT AAGGCACAGG GGCAAATGGC TTTGGGGTCC TGGAACTGGA AATGGAGACA
GGTGTGTCTC AGGTGTCCCT GCCTCCACCA CCCCCTAAGT GCACTTGAGA CAGGACCAGT GGTGGTGGTT CCAGCCCAGG
GTCCTGAAGG GTNCCACTGG CTCTAGGGGA GAGCCATGGG GACAGCTCCC CAGGCGGGAC CCTCTACTCT CCAGCTACCC
AGGAGGGACC CTNTCCTCCT AGGGGGCGAG GCCAGCTCCA AAGTGCTTNG TGGCTCCCCA GGCTTAAGGG ACCAGNCTGC
CAGGGAGGGC TNGGNTCANA GAGAGAATAG TAAGATNAGA CGAGGAGAAG CACCCCACTA GCACGGCGAT TGGANAACAC
TNTCGGCGGT ACTCGTCATG TGGGTAATTT GCCAANTTC

SEQ ID NO:1751: (Length of Sequence = 347 Nucleotides)
CTCTATTACT TATGATTACA CCATGGCAAT ATTCCTTTTT CACCAGGAGC TTTGGACCTG CGCAGGTTGT GGCATGTAAT
CACCCGGAGC ATGTAGTCAT CTGTAGAAAT CACAGGCACA CTCATGTTTG CTCTGGAAGG AATCTGTTTT CCACAATGAC
TCCCCCCAGC TAATGTACAC ACTGGCATTT TGCATGCCTT CCTCACACAT GGGGCACCAG CCTTGCTTCA GAACCACCCA
AACTCCACAG AGGCCCTTAA ATATGGGCTA GGGACAGATT TTCTTTAAGA AAGAGTTAAG GANGCAGCTT ACAAAGGGAC
AAGGCAAATT CCACAAGTCA GGCAGCA

SEQ ID NO:1752: (Length of Sequence = 297 Nucleotides)
GGATATTCTA GCCATACAGA TTCAATGGAA CAGAGAAGAG AAAGGAGGTT CCATTGGCAC CATAGTGAGC CATTCATTTG
CCCAGGGAAG NNGGTGGGGG CTAAGGGGCT AGGTTTGGTC CCATGGCTAC ATTAAATGCT TGGCATGACT CCAGGGCTNC
TCTAGTTAGT GGCTCCAGCA CAGTATGAGT TAGGTGAGTT AGGTGTAGGA GTTTGGGGAC AAGGAAAAAG GGAGGAGGGG
TCCCTAGAGG CTNGGTGCCC ATTACATAGA CTCAAATTCG TCAATGCGCT GCTTTAG

SEQ ID NO:1753: (Length of Sequence = 402 Nucleotides)

AAATTTAACT TCAACAAGCT GGTGATGCCC AACTACCCAT TCATCAACAT TCGGTCAAGT GGTGTGGTTC CTCAGAGTGC

ACCACCAGTG CCAACAGCCT CTTCCCGGTT CCATTCCCA CCTCTGGACA CCCATTCTCC AACCAATGAT GTGCAGCCGG

GACGGTTCTC TGCTAGCTCC CTAACTGCTT CTGGCCAGGA GTCCAGTAAT GGTACTGATA GAAAGACTGA GCTTTCAGAG

CTGGAGGATG GCTCAGCTGC TGACTGGCGC CGGGGTGTGG ATCCCGTGTC CTCCAGGAAT GCCATTGGTG GAGGAGGGAT

TGGCCATCAG AAACGCAAGC CTGACATAAT GCTTCCTCTG TTTGCTAGGC CAGGGATGTA CCCTGACCCC ACAGTCCTTC

GT

SEQ ID NO:1754: (Length of Sequence = 397 Nucleotides)
CAGTGGCATC TATGGCTCTA AAATGGAAAG GAGGAGTCCT GGATTCAGGC TACTGACTTA CTCTGTGAAT TTACACATAA

CTTCCTTTGA GCCACAGATT TAGCATTCTA CCAGTCACCT GATATTTCTG AGCAGCCACA ATATTTAAA ACTATATTTA

AATCTGAATT TGGATTTAGC AGAATTTTAT TTTTTCCATT TCTATTTTCT ATGGTCACTA AATTGAAATT ACAACCATTG

TAAAATTTGA TATCATTAAA TATGTAGGAC TTTATCCAGT TTCAAAGTAA AGATGTCTCT AATGTAATTA ATTGTNATTT

TCACTGATGA GACTGAAATA CAATCAGTCT GTATTGTGTG GTGCGTATGT ATCAGTGGTA AGAGGCTATG ATTAGAC

SEQ ID NO:1755: (Length of Sequence = 353 Nucleotides)
GAATTACTCT GTTGTTCACC TTTTGCTTTT TGCACTGTTT GTNCTCTTAT CTGTATTTTG AGCTTAGTGC TAGGACTGAG

AGGCTGCACC ATAGGGAATG TATGGGAGAT GGTGAGGGGT GCCAGTNAGG GGTGCGTGGA GGAGAGGCCT GGGCTCCTCT

ACTGGATCTA CACTCTGTCC CAGGTTTTTA GATCCCACTG AGCCCAGCTG ACTGAAAACA AGGACAGTCA GGGTGAAACT

TCTTTTGCCA GAAGTGTGGC CTGAGTTGAA TTTCTGGGAG GATGACGCAG ATGTCTGCTG CAGAGCTGGG CTGAGAGTTC

TNCAATCTAG CTCTGACTTA GGTCAAGGGG CCT

SEQ ID NO:1756: (Length of Sequence = 184 Nucleotides)
TGGGCTCGGA GCATCGAGCT GGACATGCGC ACCATTGCCA CTGCACTGGA ATATGTCTAC AAAGGGCAGC TGCAGTCTGC

CCCTTCCTAG CCCCTGTTCC CTCCCCCAAC CCTATCCCTC CTACCTCACC CGCAGGGGNA AGGAGGGAGG CTGACAAGCT

TTGAATAAAA CACAAGCCTC CGTT

SEQ ID NO:1757: (Length of Sequence = 425 Nucleotides)
ATTACAGGCG TGANCACCAC ACCTGAGCTA ACTTCCTGGC TTTTCAATCA AACCATCTTT GTCACTTCCT GTCCCCACCT

GAAGTCAGAA AGCCTGAAGA GAAGACGGCT CTATTGCCNC AGCTGGAGTG TGGTGGCACA ATNTCAGCTC ACTGCAACCT

CTGCCTCCTG GGTTCAGGCG ATTCTCCTGT CTCAGTCTCC TGAGTAGCTG GGATTACAGG TATGCACCAC CACGCCCTGC

TACTTTTTCG TATTTTTAGT AGTAGAGATG GGGTTTCACC ATGTTGGCCA CGCTGGTCTC TATCTCCTGA CCTCGTGATC

CACCTGCCTC AGCCTCCCAA AGCGCTAGGA TTACAGGCGT GTAAGCCACC ATGCCCCGCC AATTTTGCCA GTTTTTATTG

GGCTATTCCT TATTGAGATC TAGGG

SEQ ID NO:1758: (Length of Sequence = 407 Nucleotides)
AGGAAGGCAT AAGCTAAGCA TCCTTCTAAC CAGTTCCCAA AGTCCCATCT GCCTCCATGT ACCAGCTGAT CGCAGAGCTG

GACTGGGCA GGCTGGGCTT CCAGGAAATT CCTGAAGTTC TGAAACAGCT TCCCCTCTAG AGAAGCCCAC CCAATGTGTT

TTTTAGTGAC AGGAAGAAAG GAGGGAAGAG CTGATGTGGT GTGGCCTGCC CATATCATAC AACCCCACCA GGAGCAGGGC

AGTTCCCAAG GTGGGTGCCC GTAGATCTGG GANGCCAGGC TGGCATGATT CCTGTGAAGA ACTGTGCCTG TNTCGTCAGG

GAGAGGCCTG AGCCCTCTCA GAAGCAGGGA CAGCCACAAC TGAAGAGCAC GCCAAGCTGA GGCAGCAGCA GCAGCTGGCG

GAGCAGT

392

GGAGGCCAAG GCTGCAGTGG GCTGTGATTG TNCCACTGCA CTCCAGCCCA AGTGACAGAG CAAGACTCTA TCTCAAAAAT
CAAACAACAA CAACAACAAA ACACCACATA CACACACACA ATGAGGGTAA ACAAAATAAG TATGTGTGGG TCACACTTCA
GCAGGGGTTG CTGGTTTGCC AGAGGAAAGT GCAATTATTT TATCTATGGG TGTTTATTGT CTCCACTCTA AACTGTCAGT
TACAGATGGC AAGACTGTTT

SEQ ID NO:1766:   (Length of Sequence = 373 Nucleotides)
GTAAAATACT AAGACACTAA ATGCGTATTT TAAATTTGCC CATTAAGTTT TGGGCTGCGT AAGAAATTAG TAAAAAATAT
TTCCAAATAA CATGCAGAAG TTGTTTTTAA ACTTAAAATC TCATATTTTA GCTACACCCA CAGCGATGCT ATAGAGAGGA
GCTGGATTTC GTTGTATCTG AATGGCTCAG ATTATGTTCC TTCCAAAAAA GTTATTTTAT GTACGATCAT TTTTTATATG
ANGCATATGA AAAATCACCC AGAATCTACC ACGTATTTAC CACATAGACA AATGTCCATC TTTAGATCTG TCATTCAACA
CCATGTTATT CTTTTTATGC AACAGAATGC AGTGTTGTGA GAAGTACATC AAG

SEQ ID NO:1767:   (Length of Sequence = 330 Nucleotides)
GGTGACAGTG GCGGCANAGC AGCAGCATGG TGGCAGCCAC CAGTGGGCCT GGGGCCCCCG GGGGAGAGGA TGCCCCAGAG
GTGCATGAGC AGACCTCGTA ACCGTCCTCC GAGCGGCTCT GGTCATGTTG TCCTGGAGGG GCGCGGGGCC CCTCTGCCGC
GTCCACGCCC GCAGCCACAG ATCCATCGGC CTGTGAGTCT CCACACACCA GCCAGTCCCG GGCCGTGGAC TGTGGGTACC
CGGGTGCCAC CTCCAGCTCG CCATCCAGCA CTTTCCAGTA CTCCTGGCCA CGGAAGAAGT AGGAGGCACC GTNGGACCAG
CGCATGGCGT

SEQ ID NO:1768:   (Length of Sequence = 361 Nucleotides)
AACTGGAAAA CCAAGACTGG TAGACTCTCT TTTTCTTCAG ACAATAGGCA GGAGCCAGGC GGAGTCCAGG GATTCTTGGA
ACACCTATCT TTTCTTCGGA GGACACTAAG TTCTATTTGA AGACAAAGTT CAATATGGCA ACAGGACTGA TGGGACACGA
AGGAGTCGCT ACCGTGATTT GGTGACAGTT CTTCAAAACG ACAGTNTCTC AAGGAAAGGT GGACCTAGGA ACTCCTGAAC
TTTTGGGTTG CCTTAAGTGA GAAATCAGCA TGGCTCAGGC AAGTCTCCTG GCTTGTGAAG GCCTAGCAGG TGTGAGTTTG
GTTCCCACTG CAGCCAGCAA GAAGATGATG CTGAGCCAGA T

SEQ ID NO:1769:   (Length of Sequence = 389 Nucleotides)
CAACTACCGC AGCGCCAACT TCAGAGAGCA CATCCAGCGC CGGCACCGGT TTTCTTATGA CACTTTTGTG GATTATGATG
TTGATGAAGA GGACATGATG AATCAGGTGT TGCAGCGCTC CATCATCGAC CAGTGAGCAG AGTCCGTGCT TGCTATCTGT
CTCATGTTAC AGAGCTTCCA TTACATATTA AACGTGAAAT CTATGACTCC TGTACCTTAC CTGTTCAACA GACCTGAAAA
TGAGCCATGG CATTGGGACA GGGTCACTTC TGACAGGGGA AGTGGGTCCC CAGGTCAGCC CTTCTCTTCC CTTTGGGCTC
TTGCCAAAGN TGTCTTCCCC TACTGTTAAN CTTGTTTGTC ACACGGTCGA GTTCGTATTG GGTTCTCGG

SEQ ID NO:1770:   (Length of Sequence = 394 Nucleotides)
GCAGTTTAGA GGAAGCTCCT TCTGGGCAAG GTCAGGCGGT CCTCCTTCCC TCTCTCCTTC CCCTTTGTCC CAGCCTCAAC
TGACTCTGGC TGTGGGAGGT GTGGAGGGTC CTTAGGCTTC CCTCCCCAAC CTGGCCTCCA CCAACACCCC TAACAGGAGG
CCCGTGGAAG GCTCAGCCTC TCCTCCGCAT CCCTCCTCCT TCCTGCCTAT CGGAGGGAGC CAGGGTCCCC TAGGCTGACC
CTGAATCCTC TTCCTCCCTT CATGGGAGGG GGGCAGGAAT CCAGAGGAGG ATGAAGCCAG CGGGACCACA TGGCTTNGTG
GCTTNGACAA ACAAGCTCAG GGAGGAAATG AGGAGGCGNC GGCTTCAGAG GATTGCANCT CTNTTGGGCA CAGA

SEQ ID NO:1771:   (Length of Sequence = 373 Nucleotides)

CAGAAAAGGC AAAGTTTATT CCAGTGTTGA CAGAGAGAGG GTGAGCCTTG CACAGCAATT CTAAAAACAT GTCATCTCCT
TCACCTAAGA GGTAAGANCC GGCTGTAAGT CATGGGGTCA CTAAACCGGC CGCAGTTACA GTAAGCAGAA GAGGTCACGG
CTCAGGCCTT CTCAGACTTT CCCTGGGACA CACGGCTCTC TGGGGGGGCC CGGCGAAACC ACTCGGACCA GGAGCCATCG
TACACGGCCA CATCAGGCTT NCCGCAGAGG TAGGCAGCCA AGGNCACGTG GCAGGCGGTG ACTCCCTTGC GGCACGTGGC
AATGAGAGGC TTCGAGAGAT CCACCTTCTT GGGCTTGAAC AGAGCACGGA GCT

SEQ ID NO:1772: (Length of Sequence = 281 Nucleotides)
AAAGTGCTGG GACTATAGGC GTGAGCACTT GCATCCGGCC TAGGTGGGGT TTTGTCCCCG TTCTGCAGGA GGGAGACTGA
GGCTCGGAGG TTCAGGGCCT GCTTGGCTGT ACCCAGCCCC AGTATGTGCC TTGGCCACAC TAGTCAGATC CTTCCCCTCC
CACTCCTGCC ACCCTGCTCC TGCCCTGTCC CATAATCCAG GTTGAATGGG GGTGGGGATT TTNGGGAGCA AGGAGGGCTC
AAAGAGATGG AGATAGGNCT GTTGTCAGGC CAAAAGTGCA A

SEQ ID NO:1773: (Length of Sequence = 401 Nucleotides)
CTCTCTGCCA TGCTAACCAA CGTAGAAGAG AATAAGATAA AGCAATGAAA AGCAGAGTGG CACTCTGATA TATAAGATTC
TCTAAGAAAT ATAGAGTGAA TTTTGCCCAA AGGCCCTCAC TGAACTAATT CCTGAACCAA AAGAGTATTT CTTAATCCAA
AACTTTACAG TATTAGACCT ACGAATTCTG ATGATGCCTG ATCAGATGCT AGTTGTTCTC GACAATCCAT GCAGTTTTCC
AGTATGAAGG AAAGTAACAA ATATACCATG GTTATTCTTA TTTCTTTCTG AAAAATATCT AGGATATTTT ATAGTGTCAT
GTGGTAAAAT ATTCATTTGA CANTCACAAT GAAGTATAAT CAGAAGTATT AGCAATTTTA CTTTGTTTAT CCTGTTAATC
C

SEQ ID NO:1774: (Length of Sequence = 230 Nucleotides)
TCTGTTAAAA AAAAGTAAAA ATGTTACACA TAGGNAATAA ATGTAAAAAG CTATACTTTG CCAAAATAAA GTTTCAGCTG
AAGGTAATGC TAGTTATAAA TTAAATACAA TTCTATTAAG NNCTTGCAAA AGTCAAAGGA AGACGGNAAA CTCCCTCTTT
TGGCAATTCA AAGGCAAAGA CCTGTTCATT TATTCTTAAT TTTNCTTTAT ACAATCATTA TCCCCCACAG

SEQ ID NO:1775: (Length of Sequence = 359 Nucleotides)
ATTCAGGACA TAGGCATGGG CAAGGACTTC ATGACTAAAA CACCAAAAGC AATGGCAACA AAAGCCGAAA TTGACAAATG
GGATCTAATT CAACTAAAGA GCTTCTGCAC ATTAAAAGAA ATTACCATCA GAGTGAACAG GCAAACTACA GAAAATCTAC
CCATCTGACA AAGGGCTAAT ATCCAGAATG CTACCTAATT TTTAAAGACT TTTTCCGGCA TCTTGAAAAA AACCACCATT
ATTTGACATA GGTAAAACTG AAAAAACAAA CTATTCATAA TTACAATTTG TGACACATTA TGTAGTAGCT AGGTTCATCA
CATAAATTAC ATGNTACCCC AGTTCAAGTT AAATTTCAG

SEQ ID NO:1776: (Length of Sequence = 375 Nucleotides)
GGCAGAGGCT GCAGTGAGTC CAGATGGTNC CACTNCACTC CAGCCTGAGT GACAAAGTGA CACTCCATCT CAAAACCCCA
ACTCCCCCCA AAATTTTTAA TTTGGTTTGC ATTTCTTTGA TTATGTTTGN GGTCGATTGA GACTTGAGGC TGGCACTGGA
GCAGGCGTTC CCACCTGTCC CGTGAGGCAA AGGTCGTGGG GAGTGACCAA GTGCATCAGG GGGTGCAGAT GCCCTATTCT
GGCTCTTTCA CGCTCAGCCA TCTTAGCATA NGTGAATATA CCATGAGCTG TTTCTCAGCT TGTTTTATTT CCTGGNGAG
ATAGATGTCA CTGGAATGGN CTTTNTCCAA GTGAAAGGCC ATCTTGTGCT ATGAC

SEQ ID NO:1777: (Length of Sequence = 327 Nucleotides)
GATAAGGGAG GAAAGGCAGG AGGAGATGAG GCCAGCCCCA CTGATGACAC CTTGGGCCAG GCCTCACAGC TGCAGGCATC
AGCCGGAAAC TCCAGGCTGC TCATGGTCAC TGGCGGTGCT GAACTGTCTC TCCACTTTNT TTTGGTCCTT GATCTTGAGT

CCAATGTCCA CTCTCTTCTC AAAGAAGTTC ACCAGCACGG ACTCCGTCAG GATGGAGGCC AGGTTCTGCT CAAAGGAGAT
GCACCAGTCG GTGTCGACGG TGCCGCCGAT GCGCGCTGTG GGGCTGCAGG CCTNCCCGCC CACCAGCACC GTGTCGTCTG
CAAGGTCTTC ACATTGCAGG GAGCCCGTNC TGACCACCGA GTAGGAGGAC ATGGACATGT CGTCTTT

SEQ ID NO:1778: (Length of Sequence = 297 Nucleotides)
CCCCCCAACT AGAAGAATAC AATTAAAAAA AGAGGCAGTA CACATGGTTA ATAAACAGAT GAAAAAATTA AAATTCACTT
GTACTATAAG ACAGGCAGAT TAAATTATTT TTACCTATCA AATTAACCAG AACAAAGGCA TGCACTTTAG TGAGGATGAG
GAACATACAG ATTCACTGGT GAAAGTAAAT GTACACACAA CCTTTCAAGT TGATAGTTTG GCAGAAGTTG CTAAAAACAT
TTAAAGCTTT CATACTTTTG ATAAGGCTTT TTATTTTAGA AAACATATAA ATAAAAA

SEQ ID NO:1779: (Length of Sequence = 353 Nucleotides)
CAGAAGTAAA AGATTTTWAT TGTYCTATAG ACACTTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG
TTTCATCCCC AGAGACTGAC TGAAGGCGTT ACAGCCCTCC TCTCCAAGGC TCAGGGCTGA GAACGGTTAG CATATCGAWT
GATCAGTAAA AACATGCAAA AGTGAGAAGG AAAGGGAAAA AGGTGCATTC CCCTAAGCTG AGGGGGATGG AATTTCAGAA
CAGAGGAGGC AGGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCCTCTGT GTTATCTTTC AAAACAGTTC CCAAGCTTNG
NGGAAAGCAA TGAGCTCCAC CCTAYTCAGC AGA

SEQ ID NO:1780: (Length of Sequence = 428 Nucleotides)
CGGCTTCCCC GGAGCAGCCG ACAGGGCCAC AGGAGAATGG TATGCTGCTC GGCATGGAGT GAAGACCACC CCGTGTGCAA
TCTGTTCACC TGTGGGTTTG ACCGGCAAGC CATTGGTTGG AACATCAACA TCCCTGCATT GCTACAAGAA AAATAAGGAC
ACCGGCAGCC CTTAGTTTCA CTGTTTGCCA GCACAGACCT TTGATGGGTG CAGGCTTTTC TGCGTATTAA TCAGCCATTT
TTGTGAGAGT TTGACCCTGG AAAGGGTGCT TTGTATATGT TCTTTTCACA TAGTGCCCAG CTTGCATGAA ATGTACAGAG
AAATGTGTGG TCGTATTTTT TACTTTTGTC TTGTATATGT ATGGATAATT NGGGTCCCTT GGGCAGTAGA GGCAAAGCTC
ACCTCCCATG TAGCACATGA AAATGCTT

SEQ ID NO:1781: (Length of Sequence = 459 Nucleotides)
ACCTCAGATT GTGAAGGGCT CTGTAGGCTA TGTTAAGGAC ACTAGAAATC TATTGAAAGG TTTTAAGCAG AGAATTGACT
TGCTCATATT TTTNCTTCAA AAAGCTCAAT AGCTACAAAA CGGTCAATAG ATGGTAGCTT TGTGGGGCTG GGGTGAATGC
AATGATATTG CAAAACAAGA TATAGGGAGA CAAGAACTTT TAATAACCTA AACCAGTGGT TCTCAAACTT TCCATGCATC
AGAATCACCT GGATGACTTG CGAAAACACA AATAATCAGA CTTAATCCCT ACATTTTCTG ATTTAGCAGG TATAGAATGA
GGTTTAAGAA TTTCTAACAA GTTCCCAGAT GGCGTAAGGT GTCTCTCAGG GTTTTTACTT GAGCAACTGG GTGGATCCNG
TGGATCTTAT GTCCCTNCGA GTAAGGGGTC AGGTACAGCA TTCTCCGGTC AGATTGTTT

SEQ ID NO:1781: (Length of Sequence = 420 Nucleotides)
GAAAGCACAG GAGCCTGCTT CCAAAGAGGG ACTGTCCCGT AATTNAGAGA TGCTCCAAGG CTGACCATCC TCCTTCTCCT
GCTGCACACC CAGCAGCCAT CTATGGCTGG ATTTGGAGAA TTTCTGGTCA AACCGGTGAG TATGAGGAGA GCAGGGCAGT
TGGGGAGAGA GGTCCCAGCC CAATTCTGCC CAGAGAAGCT CCCAAAAGAG AGGGAAGTGT CCTGATGAAG AGCCCATGAA
AGGGGTGAGA CCCAGGAGGC TGTGGAGATT GCTGCGGGCT CCTCTGGTCA GTAAGGAACC CTGACAAGAT CCCTAGGATG
GGGGTCCCTT AGTCTCACTG AAGTTCTTGT AACTTNGGA̋ TGGGGCCAGC TCANCCTCCT CTGATACCCG AGCTACAMAT
CTGGCTTCCC AMTTCTAGAG

SEQ ID NO:1783: (Length of Sequence = 427 Nucleotides)

AGAGCTTAGC ATGCTGTTGG TTCATGTTTT TATGTGTTTA TTTCACATTG ACTTTTGCCG TGAGCTTTGA GGGAGACAAC
ACCATCACAT ATGTGTAAAT TGTAAAAGAA TTGGGAGAGA ATAGCTTTGG GAGATCATTT TCTTACTGGC CATGATGAAG
AAAGCTGTAT CGTAGGAAAA TTACTAGGTA ATTTTACTCA CTTGATAAAG TTAATTTGCA AGGTATCATT CGATTGGTAG
AGTTACCAAA ATGAGAGTTA AAGAAACAGA AATATGGTTT CAGTTTATGG TGCATTCTTA TCTTTTTCAC TGAGTCTATT
TCTGTCTGGT TGCTTCACTT AGTACTCCAA CCAGACAAGA GGAAGACAAC TATGCTAGTG TTTTAGGAAA TGGGACAGAA
TGGGGTGATT TAAGTAGGAG CCNGGGT

SEQ ID NO:1784: (Length of Sequence = 428 Nucleotides)
ATGGGATACT AATGCAAGCA TTCAGTGAAA AAAGTAGATT ACCAAACTAT ACGATCCTCA TTTATTTTAA AAAGTGATAT
CACCCAGAAA AAAATAAGAA AGATAAAAGA TGTTGGTAAA ATAACTAAAG AATAAAAATA TAGGGGAAAA GGTAGCCAAG
GGATAGATAT TGATATTCAT TTTCTTTTTA CAACTTTATT AAGTTGTAAT TTGTGTGCAA CAGATTGCAT ATATTTGANG
TATATAACTT GACTAATTTT GACAAATATA TACACCCATG AAACTACCAG TTATAATTTT AAACATTTTC ATGGCCCTCC
AAAGTTTCCT TGTGTCCTTT TGCAATACAC GCAAACACAC ACACCCCACA CACAGTATGT AGGGCAACCA TTGATCTGCC
TTCTGTTACA ATAGGGTAGG TTTGCATC

SEQ ID NO:1785: (Length of Sequence = 414 Nucleotides)
GTAAACAGAT TACATTGAA CACCTAAATA AGTATTTGTT TCATAATCAT TACATGCTTG TTTATGATTT ACAAAGATTT
GGTAGAGAAA AGTACAGTCC TTAAGGCATA TATATGCCAA TGCATTAAAC TACTCAGCTT TTGTGCCAGC TCAGGTGTTC
ATAGGAACAG GAATGTGGAA TACCAGCTTT TTACTTTAAT TATACTTTTA TGCTGAATTT TTCTTCCAGT TAAACCTTTA
ATTACACTAG TATGTAAAGT AGTTACTGAG AAAAATAAGT TTTTGATTTC CCTTCTGTTG GATCTGTAAC ATTTTTAAAT
GGAGCTATTT AACACATGAC ATGCTAATGT TACTTAATGG GTCTCTGCAT TTTAATTTTA NGAAACACAA ACCTGGGTCA
CAAAACATCT TCAG

SEQ ID NO:1786: (Length of Sequence = 397 Nucleotides)
GTTATTCCAA CCAAAATTTC CTAAGATTGA AATGCAGAAA CTTACAGAAT TGAGTAAAAA GACAAAAACG TAAATACTAA
ATATTGAAAA GATGCAAGTN CTCCCCAAAT ACACTCATAG ATTTAATAAA ATTCAAATTT AAAGGCAATT AATTAGGGAT
GAGGCAAGAA TCTGGGAAGA AAATTAATCT GAAGTTTGTC TGGAAAAATC AATGGGTGAA ACGAAAATAT TTTAGGATAA
GATTAATGAG AAGTAAAATT ATTTCAATTA TAAANGTAAA ATGATAAAAT AGTTAGACCT ATATGGTACT GATGCCAGGN
ATGTTATACA AAGCTACGTC AAGGCTTGAG GATAATTTTN TTGAAGATAT TCGTGGGTAT CTCATTGGCT ATAAAAG

SEQ ID NO:1787: (Length of Sequence = 408 Nucleotides)
TCCCACAATT GACAATATAT ATGCATGTGT TTAAACCAAA TCCAGAAAGC TTAAACAATA GAGCTGCATA ATAGTATTTA
TTAAAGAATC ACAACTGTAA ACATGAGAAT AACTTAAGGN TTCTAGTTTA GTTTTTTGTA ATTGCAAATT ATATTTTTNC
TGCTGATATA TTAGAATAAT TTTTAAATGT CATCTTGAAA TAGAAATATG TATTTTAAGC ACTCACGCAA AGGTAAATGC
ACACGTTTTA AATGTGTGTG TTGCTAATTT TTTCCATAAG ANTTGTAAAC ATTGAACTGA ACAAATTACC TATAATGGAT
TTGGGTTAAT GACTTATGAG CAAAGCTGGT TTGGCCAGAC AGTATACCCA ANCTTTTATA TAATATCCAG ANGGCTATCA
CACTTGTG

SEQ ID NO:1788: (Length of Sequence = 391 Nucleotides)
CAACTTGGAA CAAACTTTTA TTTTGAATGC TGGTCTGATC AGTCCACGCC CACGCGTAGG TGGTAAGAG AAACTGTG
AAGGAGGGAA GGAGAGGGGA CCAGCAGTCC GCAAGCAGGA GGAAAGGAAA GGGTTGGGGA CAGGAGGAGG CAAGGCTGAG
GAAGGACCCA GCCAGCTGGG TGTCTGCCCC GGCTAGAGAA CGAACCACCC CCACCCACCA GGCTACCCTC CATCTGTGGC

396

TTCAGTGCAG AAGTCAGTCC AGGTGGGTTC AGGCCCATGC CACCTTCTCT GGCCTGCACA GTCCCACCCC AGGCAAGGGG
TTCTTTCCAG AAAGGCTAAA TGCTCTGTCC TAANCCTNGG AAGTGTCCCT TTCAACTAAA CCCCTGGCCT T

SEQ ID NO:1789: (Length of Sequence = 312 Nucleotides)
CAGGGTGAAG TGAGCCTGTG TGGGAAATGA GTCTAGTGTC AGGAGGCCTG GCTGCTATAA TGATATTTAT CTCACAGTTT
ATATTTCATT CATTTATATT ATTTTTTTAA AAGGTTTCTT TATCAGCTAC TAAACATCTC AGCAATTTGG TGTGCATAGC
TCTAGATTAA GCAACAAAGA ATTGTACTGA TAACAAACCA CAGGGGAAAT GGTGGTTAGT AAGAGTCAGC CTTATAAAAT
TTACATCCAC ACTGTTTCAC AGCAAGATTG CTCTCTCCAA AACGTAGCCA TCAAAAGCAG CAAACAAACC CT

SEQ ID NO:1790: (Length of Sequence = 281 Nucleotides)
TGTTTCCYTC ATTAGCTGTA GACTATCCCC TCTCCTCCCA CCACAWTGTT TCTWTGATGA KTTACAAACA GAAAGGAAAT
CACATTTTCA TACTAAAAAC AAAAATGWTCA GAGCCTTGAT TTYTCCACTA GAWACTACAC GTACAGTTAA GAGTCCACAT
GCAACACCTT AAWTCACAGA CTGAGACCTC ACATTYTGAC CTGGAGNTTC CTCCCCTTCC CCAGCCTTGG GCTAGCTTTG
GCCTAGGCTC AKGTAATACT GACACCCACA GGCGCTGCTC T

SEQ ID NO:1791: (Length of Sequence = 261 Nucleotides)
AGGCAAAGCA GAAAGGTGTG TTTGCCAGAC CAGCATGGGC AGCTCAGAGG GAGCAAAGCA TCCACCAGAA GAGGCTCTCC
ATTTTTTTGT AGGGCCTGAC AGTTGAGATT TGAGGCTGAG TTAACAWTGG GACCACTGAA CTTTTTTCCA ATGGAAAAYT
CACGGCCCAG TCCCACAGGA ACTTTGCGGC ATACCAAACA ACAWTGAGGA AGGAAGGGCC GGGTGGCTCT ACCAAACAKT
TCAGGTCCAC TGGGTGAWTG A

SEQ ID NO:1792: (Length of Sequence = 324 Nucleotides)
CTCCATCTTT ATCGGCTGTA TAAACATCTC TGGTCTGTAC ATACATTTCA TACATCGTAG GGTGGGAAGC GAGGGCCAAA
GGGAGGCCCA GCAGCACAAC AGCTCACCCG CTTTCCCTAC AGCCCTACCC GCTCTGTGCA AACCAAGGCC AACAGCTCCT
GCTGCCTCTT CCTCCCTGGA AAAGTCACTG TTATGGGGAG GGGGCCAGGG GTTGAAGGAT TAGAAGGAGA TAGAGGGCTT
GGTGGGGAGG CCACATNTAA GTCCTAGATT CAAACACTGA AGCGAAACAG GCAACTGGCA CAAGCAGCAA GCTTAGGCAT
GGGC

SEQ ID NO:1793: (Length of Sequence = 386 Nucleotides)
ACTCTTGGGG ACCCAAAGAT GTCAGGTCCC CATACTCTGA GGAATCAGGA CACAGCCCAG TGCCTGACAC CACAGAGTGA
GGCAGCCCTT CGGGTGAGGG CCTGGGCCTC GAGGGATGGC AGCCACCACT GCCTAGGCAA ACGCACCTGG GGCTGAACTT
GGCGCCCGGC ACTTTNAGGA CGCCAGCACC AGTGGGCACT CGGAAGTGCC AGTTCTGGCC CAAATTTGGT GACCTGGGTC
AGAAGGACCT TTCAGAATGA NTTGTTCCCG TCAGCAGATA CCGTCAAGAC ACGGCTGGCT CTGAGAGGGG CTGGGTGCCC
GTTTTGCCTG TATTCTCCTG GGGGCCAGCA CGTCTCAGAG GGTGTCCCTG TGGGTCCCCG GGGTCA

SEQ ID NO:1794: (Length of Sequence = 308 Nucleotides)
GGATGCTCTT TAAAACATGC AAATTGGGCC GGGCACAGTG GCTCATGCCT GTAATCCCAG CACTTTGGGA GGCCGAAGTG
GGTGGGTCAC CTGAGGTCAG GAGTTCAAGA CCAGCCTGGC CAGCATGGTG AAACCTCATC TCTGCTGAAA ATACAAAAAT
TGGCCAGGCG TGGTGGCATG TGCCTGTAAT CCAGCTACT CGGGAGGTTG AGGCGGGAGA GTTGTTTGAA CCCCGGAGGT
GGAGGTTGCA GTGAGCCGAG ATTGCACCAT TGCACTCCAG CCTGGGGTGA CAGAGCCAGA CTCTGTCT

SEQ ID NO:1795: (Length of Sequence = 418 Nucleotides)

GAAACGCTAA GGTTTTGACA GCGTTACAGT GAATTCTCCG GCTGTAGAGA TTGGAGGAAG TCGGGAGAAA TTCGTCTCTA
AGTTGTAAGG TGGAACAGCA TTCATTTTCT TACTGCCAAT GGAGGTTTTT CATGAATTTA CTAACTCAGT AAAAAGATTC
GGCTTTTTTT TTTTAATCTT AAAGGATCAC GCTTTAAACC TCTGTAACAA AGTAATTATT TGTACCACTC TCTACCCCAC
CCTCCAACAA AATAACCTAT CGGNTCTCAG AAAATAATAA CCCTTTGCCT GCCTTTGAAA TAGTTATCCT TTTTAGTATG
ACAGTGTTCA AAAATTCTTT TCTTAGACTT GTAGCAGAAC ATAGCTATGA TGATCTGAAT TTTTCTCTTT CAGCTTGTTC
TAAGACGAGG GGGACTCC

SEQ ID NO:1796:   (Length of Sequence = 416 Nucleotides)
CTTTATTACA TATGCAACCT TGCCATGCCT GCCAGTTAAC TCCCCTCCCG CCAATGTTAT CCTCATGATA TCAGCTCCCT
CTTGGGGCCA CTGAGCTGCC CCCCTTTCCT TCTGGGCTGG AGTAGTGGTG CCCCTCAAGC AGGCAATGGG CAGGGGGAGA
TCCACAATTA ATCGTCGCAG TTCTCTTAAA AGTATTAACA CTTAAATAAG CACTCTTGGG GAGTTGCAAA GGATATTCAG
GATGGGATGC AGTGGGAGGC TACCCCTCAT CCAAGGTACA GGCTGGAATG AGCTACAGCT GGGTCTATCG TGGGCCTCAG
AAGGTGAAGA GGGACCCTAT TCTGGGGCTT AGTGTGGGTG GGGCATATCC TCCCCAAACT TGTTCTGTGG GCGATGTTCT
TCACATCTAG GAGAGC

SEQ ID NO:1797:   (Length of Sequence = 298 Nucleotides)
AGGAGGGAAA CCAGAATCAA ACTACTACTT CTAGATGAAC ACAGGCTCTT GAGAGTCCCC AAGAGAGGAG GCTGTTGATC
CAATCCTGAC TCAGACTACC TACCTGGCTT CCTGGCCCTA GGAGGTAATA ATGATAGTNT CAGGGGGTCC ATGTAGCAAT
CCAAGCAATT CCTGAGGTGA GAGCAAGCAA AGAGGATAGG ATGAAGGGAA GGCAGGCAAA GAATGTGCTC CTAGTAAGAA
GCAACTCTNT TCCACTCACT TCCTTTTGCT CTNTGGCAGG CAAGTCAACT GGGTTCTC

SEQ ID NO:1798:   (Length of Sequence = 245 Nucleotides)
CTGGTCCATT TTTACAACAN ATACATCCAA AACACTATAT AATANNTTTT TTTACAACAT TTCCAAATGA GAAGATTGCT
TTTNCCCCCA CTACTGCTAT TCACACACAG TACTTCCACG GCACAATACA TTAGGAGATC TAAAANTGCT CACCCTGTAC
TCTAGGCTGC TTAGGAAATG TGAAAACTAG NAACATTTAT AATGGCATTA GCTCCTTTCA ATACAAGGCA ACATTTTAGN
AACCT

SEQ ID NO:1799:   (Length of Sequence = 312 Nucleotides)
GAAATGTTAG GCTAGTTAGA AGGACACGGC AATAGCCTTG AGATTYTCAA CCAGGGTAGT GTATTAGAWG TAAAAAGGAG
AGGAAAGATT TGAGAGTTAT CTCAGAAACA GAACCATCTA ATTTTTTTGG ACTGATTTGA CTGCTCTTTC ACTCATTTTT
TTATTCACTC AACAACTATT TTTGAKTGNT TTGGATGGGT CAGACATTGC GCTAAGTGAA AAATAGGAAG GTAAGAAAAA
GAAGACTCTG AAGATGAATT CCCTCCCCAA AACTGAGCTA CTAGCTATTA CTCAGTGGGG CTGAAGTGAC AC

SEQ ID NO:1800:   (Length of Sequence = 309 Nucleotides)
GGCATGTGAC ACTAGGCCAC AAGCGATAAG CACAGGCACC TGACTTTTAA GTTTTTGTTT GTTGTTGTT TCCCAAAGTG
CTGATAACAA TAACAACAAC AATAGGATTC CAACCAGGNG CCTCAAGTGA CAGCCAGGNA GAGACCTGAA GGTTGGGGCC
ACCACAATGC CAAATCGTTT CTAAAGGAAG CTGAAAAATG GGACTGTCTT TTGCCCACTT CGTTGTGTTA AAAGGGGACA
TTTGTNCAAA CTNCCCAACC GAGTTCTAGA AGNTCCTGAC AAGGAGGCAG CATCCAGCCT TGACCAGGC

398

SEQ ID NO:1801: (Length of Sequence = 166 Nucleotides)
CAAAANTTAC TCTGCAAAAT TAATATATGA TTTACCTGCT GTTNTCATAA GATTTCCAAA TAGACAAACT CGGTATGCTT
NGGATTTGCT TTACATTCTA AGTGGATTTG GAGGTTCAGG CAGGCGCCAA GGAGTNAGCC GAAGTTTCAT CANGCGGAGA
TGTTGG

SEQ ID NO:1802: (Length of Sequence = 281 Nucleotides)
GGTGGATGTC TTTGGGCGCA GGATGGAGCC CAGACCCAGT GGTTACAGTG TGGAGCTCTC TCCCTGTCCC CTGACTCTGG
CCAAGGAAGT GAATGCAAAG CAGCAGGGAG GAGGCAGGGT GGGGACGGCC CTCTGAGCTC TCCGCGATGG CTGGCGTGAG
GTGCCTCTAA GACTTCTNGG CAGCCCTGCC TTCCCTACTC AGTCTTCCCG ATCTTNTTGC CACCTTTCTG TGTGGGCCAG
NCTCCCGCCA GGTACTCAGA GGCCGCTCAG AGGGCAGGGT T

SEQ ID NO:1803: (Length of Sequence = 429 Nucleotides)
TTCACAGTTA TAGTTGGGGA CATTAACAAC CCTTTCTCAA TAATTGATAG ACTACTAAAT AAAAAACCAT GAAGGATATA
CAAGAACTGT ACAACACTGG CCGGGTGTGG TGNCTCATGC CTGTAATCCC AGCACTTTGG GAGGCTGAGG CGGGTGGNTC
ACTTGAGGTC AGGAGTTCGA GACCAGCCTA GCCAACATGG CGAAACCACA TCTCTACTAA AAATACAAAA AAATTAGGCT
GGCTGTGGTT GGCTTAATGC CTGTAATCCC AGCACTTTGG GAGGCCAAGG TGGGCATATC ACCTGAGGTC AGGAGTTTGA
GACCAGCCTG AAAAACATGG TGGAAACCCA TCTCTACTAA AAATACAAAA ATTAGCTGGG TGTNGTGCGT CTGAAAAAAT
TAGGTAAACT CCGTCTCAAA AAATAATAA

SEQ ID NO:1804: (Length of Sequence = 278 Nucleotides)
GACCTGAAGC TCAAAGTCTC TCTCCTTACA CAACCAGCGN CAACAGGGCC AAGCTACTGG CTAAGAACAG ACAAACTTTC
CTGCTTCAGA CCACAAAGCT GACCCGTNTT GCCAGACGCA TGTGCAGGGN CCTNTTACAG CCAAGGAGGG CCGCCCGACG
GNCTTATGCT CCTATCAATG CCAATGNCAT CAAAGCAGAG TGCTCCATTC GNCTTCCTAA GGNCGNCAAG ACTCCATTNA
AGATTCACCC TCCTGGTGCG GCTGNCCCTG GGAACTAT

SEQ ID NO:1805: (Length of Sequence = 349 Nucleotides)
GCATCCATGG CGGAGGGCGG CAGCACGACG GGCGGCAGG GCCGGGCTCC GCAGGTCGTA ATCTGAAGGA GTGGCTGAGG
GAGCAATTTT NTGATCATCC GCTGGAGCAC TGTGAGGACA CGAGGCTCCA TGATGCAGCT TACGTCGGGG ACCTCCAGAC
CCTCAGGAGC CTATTGCAAG AGGAGAGCTA CCGGAGCCGC ATCAACGAGA AGTCTGTCTG GTGCTGTGGC TGGCTCCCCT
GCACACCGTT NCGAATCGCG GCCACTGCAG GCCATGGGAG CTGTNTGGAC TTCCTCATCC GGAAGGGGGC CGAGGTGGAT
CTNGTGGACG TAAAAGGACA GACGGCCCT

SEQ ID NO:1806: (Length of Sequence = 403 Nucleotides)
GTGCAGTGTG GCCAGATCTT TTCTAGTAAA ATGTGTGTTA CTGATGGGCA GACAGCTCTC ATTCAAGCAG TGACAGATGT
AAGCNCTTCC CATTTTTGTG GCCCCATTGT ATTCAGCGTG TGGCTTCCAA GTTGCCTGGG ATCATCTCCA CCCAGACTAA
GGAAGAGGAA AGAGCTTGGA CAACTGCACT TGGCTGGTTT TNATGGATCA GGCAAGGAAT TGGCTCCAAC ACATTAGCTC
ACATTCCATT GGTTAGAACT GGGTTTCTCA ACTATTAGTA CAGGGTGAGT GTAGGGTTTT GGCACCATGG GCATTTGAGC
TGGCCAAAGG CTAATCAGAG TTAGAACAAA GCCACAAAGC CTGTGAATGG TGTTTATTGT TGTGAGGAGC TGTCTTGTGC
ATT

SEQ ID NO:1807: (Length of Sequence = 426 Nucleotides)

399

GTCCTCAGCT TCACTCTGGC ACCACTGTGA GCACCGGGAA ACCTACCAGA AGTTGCTGGA GGACATCGCT GTCCTGCACC
GCCTGGCTGC CCGCCTCTCC AGCCGAGCTG AGGTGGTAGG CGCCGTCCGC CAGGAAAAGC GCATGTCGAA AGCAACGGAA
GTGATGATGC AGTATGTGGA GAATCTAAAG AGGACGTATG AGAAGGACCA TGCGGAGTCA TGGAGTTTAA AAAGCTTGCA
AATCAGAATT CAAGCCGCAG CTGTGGCCCC TCTGATGGGG TCCCTCGCAC GGCACGGTCC ATGTCCCTCA CGCTGGGAAA
GAATATGCCT CGCCGGAGGG TCAGCGTTGC TGTGGTTCCT AAGTTTAATG CCCTGAATCT GCCTGGGCAA ACTNCCAGCT
CATCATCCAT TCCTCCTTAC CAGCTT

SEQ ID NO:1808: (Length of Sequence = 431 Nucleotides)
GGTACTTTTC CATTTAGATT CAAATGGAGC TAAAATTAAG AGTTTTATGA GCTGTTAAGA ATGAGGTAGT TTCTCCTAGG
ACCCCCCAAA GACAGTGCAA GTAATGACCG TTTGGNTCTC ATTCGTCGAT CTTTGATAGT ATGTNCTGGA GTCTACTCCC
CAGGAGCCAG GACAGGCGTG AAGATGGAGT CCTTGTCGCA GCTGGAGCCT TGCCTAGCTG GTGATCACAC AGCCTGGNCT
GTACCTGCAC CCCACTGGAT GGTGGTACAT GGTGGCAGGG ACAGGACCAC ACCCAGTTAA GGCCAGACCA GGCTGAGTGT
GACCCCTGAG GTAAACACTT CACTAAGCTG TGTCTTGTTC ATGCCCCCTG CTCAGTGAAA GGTGAGTCCC GAGACCAGTT
GGGTACCTCT CTTATGCGAA CCAGAGACAT T

SEQ ID NO:1809: (Length of Sequence = 401 Nucleotides)
CGTGAGGCCT TGAGCACAAG TGCAAGCGGG ACATCCTGCT CGGCCGGCTC CGGAGCTCGG AGGACCAGAC CTGGAAGCGG
ATCCGGCCCC GGCCCACTAA GACCAGCTTC GTGGGCTCCT ACTACCTGTG CAAAGGAGGA GATCGACGTG TGGACCGAGG
AGCGGAAGGG CACCCTCAAC CGCGACCTGC TCTTCGACCC GCTGGGGGGT GTTAAGCGCG GCAGCTCACC ATCGCCAAGC
TCCTGAAGGA GCACCAGGGC ATCTTCACCT TCCTCTGCGA GATCTGCTTT GACAGTAAAC CCGGATCAT CAGCAAAGGC
ACCAAGGACT CTCCGTCTGT NTGCTTCAAC CTGGGCTGCC AAGAACAGCT TNTTACAACA ACAAGTGCCT GGTGCACATC
G

SEQ ID NO:1810: (Length of Sequence = 233 Nucleotides)
AAGTGCTATA TTCATTGTAT TATAGAGAAG GTTGGGGAGC ACAGAAGAGG ATCAACCCAG CTTTAGAAGG ATTAGAGAAA
GCTTCCAGAG GGGTGGACAT TTGAGCTAGC AAGAAAGCAC AAGGGAAAAG GCATTTAGAC AGAGGAGACA ATTTGTCCTG
ACCCAGAAGC ATTGGGGTAT GCTATGCATG GATAGNCAAA GAATTTTTGC AAAAGGGGGG CCAGCAAGGC ATT

SEQ ID NO:1811: (Length of Sequence = 423 Nucleotides)
CAAAGAAAGA GTTGAACTAT GTACATTGAA AAAAGGAAAG ACATTTTTTC ATACCAACCT TTCCCTAGTT CGCAGTTTCT
GAATAGTAGA AACAAAACAC ATTTTTAAAT CTTTCTATCA ATTTAATTTA GGACGAAGTA ACACAACTTT TATAATTAAC
CACTGAAGTT GTCTTTAAGG ACAAAACTTA AATTTTAAAA TGGGTGTTAC CATATTTNAT GAGTGGACTG ACTCCAAGGT
TGCCTTGCTC CAAGNNTGGG CATCGTGACA TTGCCGTGAT GCCCAGAAGA AAGTTAATGG CAATGATGTC CAGTCAGAGG
GCAGACATGC TACACATCAC AATGATGAGA GCTGCGGGAT TCTGCCCTCT TCAACTTCCA AGTAGNAAAT TATTATTTTC
CATTCAAACT AACTGGGAGT GAG

SEQ ID NO:1812: (Length of Sequence = 394 Nucleotides)
GACCAGCCTG GCAACTTAGT GAGACTCTGT TTCAGGAAAA AAAAAAAAAA GTGTATTTGG CTGTTCTGAA GCAGGCCATC
ATCACCCTTC ACCTCACCCA CAGGTGGCTC TCGGGGGCTG GTCCATGGGC GGCTGTGGCG TNAGGATGGA GTCCTAGCTG
TGACCTGTGC CCAGGAGGGC GTGATCCCAG TGAAGCCCCA GGTCTCAGAG AGCTAGCTGT AGCCAGAGGTAGCCTAGGTTCG
CCTGGGGCTT CAAGAACCTC CCATCTATCC CCATTCCTGA GACAGGAGTT ACAGTCCCTT TTGGNCCTNA CATCCAATAA

400

AGAGACTGAT ACCACTGGAG TGGCTGGCTT TTAATTCCCC TGGGCCAGAC CTGCAGCCTT GCCTTAATCC TTAA

SEQ ID NO:1813:   (Length of Sequence = 344 Nucleotides)
CATCAGCGAC AGGTCTCCCT CCCAGAACCC CATCAGGACA GGAGAAAAGG CAGCAAGAGA GGTGGGGTGG TCCTGGCACG
TGGGCCACCA GTNTTCTGAA TGAAGAGTGA GTCCCGGGTC AGGAGTCCAC ATCAGGTGTG GGCTGCTTCC AATCTGTAGG
TTCTCCTGGA GATTNTCACA ATCTGCCAGC TCTCTGGGAA TCACAGAACC ATCATGTCCC CTTAGGATGG CAGAAGATGT
GGCACAGCCT CAATCTCCAA CACTGAAACA CTNAGAGAGC TTGATACGTT CCTTAGGCAG GGCAGAAACA TCACAGCACT
TCACGNTAGG AACCACGAAA GAGT

SEQ ID NO:1814:   (Length of Sequence = 442 Nucleotides)
GACACAGCAG GCCCCTGCCC CTGAAGGAGA CTGCATTGGA ATTTTTGCCA GGTGGCCCTG ACACATAGGA ATGCCCAACT
ACTGTGACTA CCCTCTGAGA TAAAAAGCTG TCCTACTGAT TTTAGAAGGC CAAAATTAGA GGTCATTTTG GAGGTCATGC
CAGTGGACAT ATAACAGTTT GAAATGCTTG TTCCCCGGTG CCGTAAAGAA ATAGTACTTG AACTTAAATT TATTCAGCAA
GGCCATTTTT ATTTTCTGCA GAAAGGGTAC ACTTGGCAGC AGTTTTNCCA CGAGAGTACC CCGAACAAAG GAGACAGGGT
CATTTATAAC CTGACGCGTC CACCCTTCTG CTGTGTCCGG TTTCCATTGG CTGGAACAGG ACCTCACATT CTGTATTTGT
CCCGATTGGC TAGCAACTTA GGACTTATTA AAAGAGGCAA AG

SEQ ID NO:1815:   (Length of Sequence = 299 Nucleotides)
GCAGAGAATC CCTTGAACCT GGNAGGCGGA GGTTNCAGTG AGCCGAGATC ACGCCACTGG ACTCCAGCCT GGACAACAAG
AAGGAAACTC CATCTCAAAA AAAATTGAAA AAAAATTCAN GANATACAGA ATGCAAAANG GGACCAAAAA AGTACCAAAA
ATTTCAAAAT TTTGTTAAAC TGTACCAAAT CTGGNTACGA AGCGTTATTT TTGCCCACAG GGCACTTCCC TGGAAAGNCG
TTACAATAGC TNAGGCTTCC TCTTCAGATA GANTTAGAGT GGCAGTAGGA TAGGCTCTT

SEQ ID NO:1816:   (Length of Sequence = 286 Nucleotides)
ACCCCGGGTC CCAGGTATGC TCCCACCTCC ACCTGCCCCA CTCACCACCT CTGCTAGTTC CAGACACCTC CACGCCCACC
TGGTCCTCTC CCATCGCCCA CAAAAGGGGG GGCACGAGGG ACGAGCTTAG CTGAGCTGGG AGGAGCAGGG TGAGGGTGGG
CGACCCAGGA TTCCCCCTCC CCTTCCCAAA TAAAGATGAG GGTACTAAAG TTGTCTTGGT TTTTATTTTA TTATTATTTT
TTTCTTTTTC CAGTATACTA GCTTGTCTTT TAAGAAAGGG GATATT

SEQ ID NO:1817:   (Length of Sequence = 320 Nucleotides)
GAAAGGAAGG CCAGGGTGGG AGGAAGGATC AGCTAAATCT GAGGGAAGAA GAAGGAAAGG AGAGGGACTA TTGCATAGCA
GATGCAAATG AAGGGACTGT CTTATTATAC AGTTTTATCA TCTGTTAATA CTCATAATCT TGTTTCTTTT TCAACTTTTA
TATAATTTTA TCTTTACATT AGTTAAATCA AAAATCTTAA AACACATTTT AAACGTGGTC ATAGGTTACT TTTATATATT
ATTGAATTTA TAATAAACAT GTTTCTTTNC TGGAAACTGG GATGGNACCN CGATGGTGTT TCTTGAATAT AAGAGTGTCC

SEQ ID NO:1818:   (Length of Sequence = 356 Nucleotides)
CCCAGGAGGC TGAGGCAGGA GAATCGCCTG AACCCGGGAG GCAGAGGTTG CAGTGAGCCG GGATTGTGCC ACTGCACTCC
AGCCTGGTGA CAGAGCGAGA GTTCATCCAG ACACACACAT ATATATATAA TTNCCAAACA GGCTTTACTA AACCCCCTGA
GGTCTCATGA CACAGTAGAA AATCATGATT TAGTAGAAAG AGCATGGTCG TAGGAATCCA GTAGATCAGT AGACCNAGT
TAGAGTCCCA AATCTGCCAC TTTCAATCTG TATGGCCTTA GGCAAGTTAC TTAANCTTTC TGTCTCTCTG NNTTCTTTAT
AAAATGGGGG ATAATAATAG TAACTTCTTC ATAGGG

401

SEQ ID NO:1819:   (Length of Sequence = 328 Nucleotides)
CCACTCCTGT AACCTGCTGG ATGACTCTGC ACTGCCCTTC TTCATCCTCA CCAGTGTCCT GGGTATCCTA GCTAGCAGCA
CTGTCCTCTT CATGCTTTTN AGACCTCTCT TCCGCTGGCA GCTCTGCCCT GGCTGGCCTG TCCTGGCACA GCTGGCTGTG
GGCAGTGCCC TCTTCAGCAT TGTGGTGCCC GTTTTGGCCC CAGGGCTAGG TAGCACTCGC AGCTCTGCCC TGTGTAGCCT
GGGCTACTGT GTCTGGTATG GCTCAGCCTT TGNCCAGGCT TTGCTGCTAA GGGTGCCATG CCTCCCTGGG NCACAGACTG
GGTGCAGG

SEQ ID NO:1820:   (Length of Sequence = 359 Nucleotides)
CCACCATGCT CTGCACTCGC NCTGGTACCA GGCCCGCGAC CTCATGCTCA TGAGCCACTT GCAGGACAAC ATTCAGCATG
CAGACCCGCC AGTGCAGATC CTTTACAACC GCACCATGGT GCAGCTGGGC ATCTGTGCCT TCCGCCAAGG CCTGACCAAG
GACGCACACA ACGCCCTGCT GGACATCCAG TCGAGTGGCC GAGCCAAGGA GCTTTTNGGC CAGGGCCTGC TGCTGCGCAG
CTTGCAGGAG CGCAACCAGG AGCAGGAGAA GGTGGAGCGG CGCCGTCAAG TCCCCTTCCA ACTGCACATC AACCTNGAGC
TGCTTGGAGT TTGTTTTANC TGGTGTCTGC CATGTTCCT

SEQ ID NO:1821:   (Length of Sequence = 208 Nucleotides)
CCTGGGTCTG TGACCCAGAG TTCCAACACA AAGACACTTT GTACTGGAAC GCTGGAGCCA TTCCAACATG AACAGCAAGA
ATAGAACCTG TGCTGGCTGG TCTAAGATCA AACCTCGNGA TGGTGGTTTG AAGTNCTTCT TCAAAGAAAG CTTGAAAATG
AAATCTCAGT TAGGCAAGNC AGATAAAAGC AGAGTTATTC TGGTGGCG

SEQ ID NO:1822:   (Length of Sequence = 314 Nucleotides)
GGATGTNTTG AGCCAGAGTT TAAGCCTGAC ACACAGGCTT TGGTCCTCAC TGAGCTGTCT CCAAGACTGG AACTACTTAG
TGACTCGGCA AATTTTCTGC CCCCCACCCC TCATCAAAGC TGCTAGTTCA GATGTTGACA GTGTTTTTCAT GAATGTTGGA
ATCTTACTAG TCCAGACTTA CTTAGGATGT TGTTGGGGAA GGCACTTGGG ATTTTCTGTG TCTTGCATTC ACAGAGGGAG
GCCATTTCAG ATTCAAGAGC ATTKGATTAG GGGATCGTGA GGCAGGGATG CTACTGCGKA TTTCTCTCTT CAGG

SEQ ID NO:1823:   (Length of Sequence = 344 Nucleotides)
AACAATTTTG TCTTTACTAC ATCTTAAAGA ATTAGAACTT GGGTTGGTGT AAGTGACTTA CTTCCAGGGN ATCATGCTCT
ATTTCTACCA GCAGGTCATA CCCNAATGTC ACACTATCTA TTGTTAACCA TGAATGNTAT TCAGATCTAT TACTTTTCGT
GAAAAGTGGA ACATGTTACT TCCAACCATG GCCTGTCACC GTGAGTGTGA TCANCTTTNT CCAAAACCAC ATGGGTCGCA
GGAGCTAAGG GGTGGTACCC MAATGTTAGG GACAGTGTTA GGGAAGGGCA AGGGAAAAGA AGTGACTNGA TGTCTTATGA
GRAACCCGTA AATGGCTTAA AAAA

SEQ ID NO:1824:   (Length of Sequence = 340 Nucleotides)
GTGAGTGGCA GGTATCATGA ACCACATTGT GGACCTGGAG TTGCTAGGAC CTTTTCTGCC ATTACACAGA AAAATCCTCC
CTGAGAACAC AGCCATTNGA GGNCACATGG CAGAGGAAGA TAAGACAATA AACAGAGNCA CATAATTATG GCCAGCGTGG
GGGCTNACGG CTGTAATCCC AAAACTTTNG GAGGCCGAGG TGGGCAGATC ACCTAAGGTC AGGAGTTCGA GGCCAMCCTG
GCCAACATGG TGAAACCCGT CTCTACTAAA AATACAAAAA TTAGCCSGGC GTGGTGGCAC GGGCCTGTAG TCCTAGCTAC
TCAGAGGGTT AGGCAGGAGA

AATTTGGTTG TGGCCAAATT CTCAGTCCAA TCACCCTGCC CCAGGGCCTG GCGTGGGAGG ATGTGGCAGG CTCTGTCTCC
TTCTGGGGTT CCTGGTCTGG AGGAGTCTCC CCAACAGCGC CAAAGCTGGC TGTTTTCCGC CCAAAGCCCC AGAACTTTGA

402

ATGAGAGGCA AATCTACCCT GAATGCACCT CCCTCCTAGG CTGGGTGAGG TCACGCAGAC ACAGAAGGGC AGGACAGAAC
TCCCCATCTT CTGGGGGCCA ATTCGTCTGG ACACTGTGCG GTCANCTTCC TTTTTAAAGT GCCAGTATCG GTGGGGCAGG
AAGGGACTCT CAGGGCTGAG CAGAGCCTTC TTCAGCG

SEQ ID NO:1826: (Length of Sequence = 207 Nucleotides)
CCGGCCCCTT CAGTCCCCAG CCCCTGCCCC AACTCCGACT CCTGCACCCA GCCCGGCTTC AGCCCCGATT CCGACTCCCA
CCCCGGCACC AGCCCCTGCC CCAGCTGCAG CCCCAGCCGG CAGCACAGGG ACTGGGGGGC CCGGGGTAGG AAGTGGGGGG
GCCGGGAGCG GGGGGGATCC GGCTCGACCT GGCCTTAGCC AGCAGCA

SEQ ID NO:1827: (Length of Sequence = 309 Nucleotides)
GTGTGCGCCT GTAGTCCCAG CTACTCCGCA GGCTGAGACA GGAGAATCGC TTGAACCCTG GAGGCGGAGG TTGCATTGAA
CCGAGATCGC ACCACTGTAC TCCAGCCTGG GTGACAGAGC GAGACTCCAT CTATAAAATA AAATAAAATA AAATAAAATA
AAATAAATAA AATAAAATAA AATAAAATAA AATAAAATAA AATAAAATAA TAAAATAAAA TAAAATAAAA TAAAATATAA
AATAAAATAA AATAAAANTA GAACCACCAT ATGANCCAGC AATCTCATTA GTGAGTATAT ATCCGAGGG

SEQ ID NO:1828: (Length of Sequence = 382 Nucleotides)
ATCTCTGACC ACCCCCTCCT CCCCATCCCA CCCTTTGGTA ACTCCCCCGC CCAGGNCACT GCCCAGATAT ATTCTTCTCC
TTGGGCAAGA AGTTCTGTGC ATGCAGGTCA AATCTGAAAG GGNCATTTCT TTCTTTAATG AGTGTCAGGG ATGGGGGATG
TGGCTGATGA TATAAGGGGC CCTCCAATCA GACTTTCTAA TCTAACTGAA AAGNTAATTA CAATGTTGAT GCTAAAAAAG
AAGGTTCTGG CAAAATAGAA CTTCTGAAGC ATCATAAATC AGATGACTAA TATTTGTGAT CCCCNTTTAA ATTTTCATGT
GAAGAAGAAT AGGGGATGTA ACTGAAGRAA TGNACTAAAA GTTCTTCTAT GTATTGATAA CC

SEQ ID NO:1829: (Length of Sequence = 361 Nucleotides)
GGCGCGCGCT CTGGAGCTGG ATGTCCAGGC TGCGGGCGCT GCTGGGCCTC GGGCTGCTGG TTGCGGGCTC GCGCCTGCCG
CGGATCAAAA GCCAGACCAT CGCCTGTTGC TNGGGACCCA CCTGGTGGGG ACCNCAGCGG CTGAACTCGG GTGGCCGCTG
GGACTCAAAG GTCATGGCGA GCACGGTGGT GAAGTACCTN AGCCAGGAGG AGGCCCAGGC CGTGGACCAG GAGCTATTTA
ACGAATACCA GTTCAGCGTG GACCAACTTA TGGAACTKGC CGGGCTGAGC TTTGCTACAG CCATCGCCAA GGCATATCCC
CCCACGTCCA TGTCCAGGAG CCCCCCTACT GTCCTGGTCA T

SEQ ID NO:1830: (Length of Sequence = 180 Nucleotides)
AAGAACGTTG GCTGCCTGCA GGAGGCGCTG CAGCTGGCCA CTTCCTTCGN CCANCTGCGN CTCGGGGATG TAAAGAACTG
AGTGGGGAAG GAGGAGGCTC CCACTGGATC CATCCGTCCA GCCAAGAGCT CTTCATCTGC TACAAGAACA TTTGAATCTT
GGGACCTTTA AAGAGCCCCT

SEQ ID NO:1831: (Length of Sequence = 335 Nucleotides)
AGATCTTCTA TATTCCGACT ACTGATTCAA ATGCTAATCC TGGACGGGCA TGGTGGCTCA CACCTGTAAT CCCAGCACTT
TGGGAGGCTG AGGCTGGTGG NTCGCCTGAG GTCCGGAGTT TGAGATCAGC CTGGCCAACA TGGTGAAACC CTGTCTCTAC
TAAAAATACA AAAATTTGCT GGGCGTGGTG ACATGCGCCT GTAATCCCAG CTACTCGGGA GGCTGAGGCA GGACAATCAC
TTGAACCCGG GAGGCAGAGG TTGCAGTGAG TTATTGCACC ATTCACTCC AGCCTGGGTG ACAAGAGGGAGAATTCATTC
CCCCACCAAA AAGCG

SEQ ID NO:1832: (Length of Sequence = 337 Nucleotides)
GTATTTGGAG ATGGGACCTT TGGAAATGCT TTGATTAGGA AGAAGGAGCT TTCATGAACG GGATTAGTGC CCTTATAAAA
GAGGACGCAG AGAGCTCTCT CACACCTTCC ACTGTCTGAG GNCACAGGGA GAAGGCCCTG TCTATGAACC AGGNAATGAT
CCCCAACCAG AACACCTTGA TCTTGGACTN CCCAGATGCT CCANATCTNT GAGAAGCAAA TTTCTGTGCT TTATAAGCTA
TCCAATGTAT GGAATTTTNG TACAGCAGCC CCAACAGACT AAGNTATTAA TAAAATAAAG ATGTAAGATC TCTGTTGAAA
ATGCACAAAT AATATCT

SEQ ID NO:1833: (Length of Sequence = 244 Nucleotides)
TCTCTCATTG TAAGCACAAA TTGTTCCGTG TCTGGTTATT AAAATCGCTT TGGGTCTATA ACAGCCACTC TTGTCCCCCC
TTTTAATAGA AAATTGTCAT TCTAGCCTGG ATTTCTCCCC ACTGGAGGTG GAGGGTGGGA AGAGAAGGGA GTCAGCTCTG
ACAGCTTACA AACTGGGAAG TTCTGTGCAT CTCCAGGGAT TCCAGAGTTG AAGATCTGGT TGTTGGAAGC TGGGCGCCCA
GTGC

SEQ ID NO:1834: (Length of Sequence = 322 Nucleotides)
TCCTGTACTA CACCTTTGCC AACATGGCCA TGTTGAACCA CCTGCGCAGG CCCCCGTCCT GCAGTACCTG TACTACCTGG
CCCAGATCGG CATCGCCATG TCTCCGCTCA GCAACAACAG CCTCTTCCTC AGCTATCACC GGAATCCGCT ACCGGAGTAC
CTGTCCCGCG GCCTCATGGT CTCCCTGTCC ACTGATGATC CCTTGCAGTT CCACTTNACC AAGGAGCCGC TGATGGAGGA
GTACAGCATT GCCACCCAGG TGTGGAAGCT TCAGCTCCTG CGATATGTGT GAGCTGGCCC GCAACAGNGT GCTCATGAGC
GG

SEQ ID NO:1835: (Length of Sequence = 178 Nucleotides)
ATGAAAGCAC AAAAGAAGTC TATCAAAATT ACAAAAACTT AAAAACCGAGT AAACAAAACT TCAGAAAGAA TGAAAACAAT
TGGAAAATAA CTTCAAGAAA AAAATGTAAA ATGGAAACAA TACAAGANCA ATTTGTGCCC TCTGAAAAAC AGAGGTTAAA
GTCAGAATTT TTTTGTNC

SEQ ID NO:1836: (Length of Sequence = 377 Nucleotides)
CGCCTGGNAC CACACCCAGC TAATTTTTGT ACTGTTAGCA GAAACAGGGT TTCATCACGT TGGCCAGGCT GGTCTCGAAC
TCCTGACCTC AAGTCACCCA CCTGCCTTGG CCTCCCAAAG TGCTGGGATT ACAGGCATGA GCCACTGTGC CCGGCCTTTA
TGCTGAGTTT TAAGGGCTGT ATGAGACACC AGGTGGTGGG AGGGAGCTGT TTTGAGAGCA GGGAATTTAG GATACTTAGG
AAATTAGAAA ATTAGAGAAG TCATAGGATC TTGGAACTAA GGGAGAACCT TAGAGTCCTG TGGAGCAGAA CCCAGCATTT
GTATGTGGAG GAAACGGAGG GCCCAGAGAA GTTGTGACTT ATNCCGGGGT CAATCTT

SEQ ID NO:1837: (Length of Sequence = 388 Nucleotides)
GGAGAGAACA AACCCTCTTA CTGGCCTTGG GCCCATCCCT CTTTCTCCCA CACTGCTACT TTTGAGTTAT CTCATTTTGC
TCCCAATAGT CAGCCTTGAC TTTTCTGGGC TTACCTGGGC ATCAGGGACC CATGTTGCAC ATTCAGTTGT CCCGATTATG
TCTGCCTTAG AGCGTCTCCT AGGGCAGCCA GTCTGGAACA GTCAGTCACC TAGGGTCCTG GAGCTCCTGC AGTCTGCCAC
TCGCTNCTTC TGCCTGATAA CAAATACTAT TCCTTTTATC CTTGCAACTC GACCCAGAAA GAGGTGGCTG TCAATGTCCA
AGGCCCCTGG GAAACGAAGG ACTGGAAATN TGAAACCACT GGGCACAGGG GGAATGGGTG GGTCTGAG

SEQ ID NO:1838: (Length of Sequence = 369 Nucleotides)
TCTCTTTATG CCAACAATTA ACTGGGAGCT AGGTTAAATT ATTTGGCTAG ATAAAACTAC CAGCTAGATG GATTTATTTG
GTGCCCTCAT ACAGAATGCT GTAGAAAATG TAAAGAAGAG AAAGCTCCTT CCAGCTAGAA GCACATGGGA CTGCTTCTAG

404

GATGGAAACA AGTCCTGCTA TTTTCACAAT CCCTAAGNGT TCTCCAGGCC TCTGGAGAAC AAAGTAAAGT TGTAAGATCC
CCAAAGACAC GGAAAATCCT GGACGAACAG ATTAGAAATA ACTACAAAAA ACAAGTTTTT TACTTTCGAA AAGGGTACTG
CACTGAAACC AAGTTGGACT TTTGGTCCAC CCCCAGGGCC CTCTTCAGG

SEQ ID NO:1839: (Length of Sequence = 359 Nucleotides)
CNNGTAGGGA AGAGGACTTT ATTGGGATGT TAGTAGGGAA ACATGAGAGG GTGAATTCCA GGGAATAGAC ACTAGGACCA
AGGTGGCGGT CACCTTAAAG AGCCATAAAT AAACTTAAAA AATTAAGGTG AGGAGGTGCC ACGTGGGGAG GCTGCTGGGA
CTATCTGGGA ATTCTTAGGG ATGGAATTTT GGAATTGGAA AGGGGAAATA AGAATTTCCA GCCGTNTCAC AAAAGGGTGT
GAAATGATCA CTTCAAGACT CCCTGCTGCC CTAGGCTGGG AGTTGGGGTT CTGGGGCTCC AGGAAGAGGG GAGGTCTGGG
CTCGGCTTNA AGGGGTGAAG AGGGCCCGGT CAAGGTCGT

SEQ ID NO:1840: (Length of Sequence = 360 Nucleotides)
CCAATGAGCC CAGCCTGACA CATATGGACT GCTCGACAGG TCCACTGTCC CACGAGCAGA AGCTGTCACA AAGCTTGGAA
ATTGCCTTGG CATCCACCCT TGGCTCTATG CCCTCCTTCA CGGCACGGCT GACCAGGGGA CAGCTCCAGC ACCTTGGCAC
AAGAGGGAGC AACACTTCCT GGAGGCCTGG CACCGGCTCG GAGCAGCCTG GGAGCATCCT GGGCCCCGAA TGTGCCTCCT
GCAAAANAGT ATTTTNTCCC TACTTCAAAA AGGAGCCGGT GTACCAGCTG CCCTGCGGCC ACCTCCTGTG CCGNCCCTGC
CTGGGTNAGA AGCAACGGTC CCTGCCCATG ACGTGCACAG

SEQ ID NO:1841: (Length of Sequence = 332 Nucleotides)
GTGTGATTCC ATTTATATGA AATGTCCAGA ACAGGGAAAA CCTATTTNAG ACAACAGAGA CACAAAGTCG ATCAGCAGTT
GCCAGGGGAG GAGGAAGACG GGAGGGGAAA TGATTGCTTC ACGGGGTGAT GACAGAATGT TCCAGAACGT GACAGAGGTG
GTGCCTACAC AACTTTCTGG ATGTACTAAA TGCCGCTGAT TGTTCACTTT CAAGTGATTG ATTTTTTAGGT TATTTGAATT
TCATCTCAAT TAAAAAACCC AAACACGCAA ACTGCTCCCG CCAGCTTCAG CCCCGAGGCA GACGGCGCAN CCGTGGGAGG
GATGCTGAGC CA

SEQ ID NO:1842: (Length of Sequence = 246 Nucleotides)
GCTGGTCAAG GCAGAGTTTA CTGAACTNTN AGTTTCCTCC TGCACACACC GGGCATGACA CCTTCAAGTC TGNCCAGCAG
TGGGTCCAGA AAGTACCCTG TGTGCCTTGG ACGCAGAGGC TACAGTTCTN ACTGTGTGGC ATGGGAGCCT TCANAGTGCC
CTCGGGAGCT GCCCCTGGTC TTTGTCTGNA AAGGTGACTG GGAGGNTAGA AAAAGCAGCG GGCTGGCATT GTTTCGGGGG
TGGGGT

SEQ ID NO:1843: (Length of Sequence = 313 Nucleotides)
ATTTATTGCA AACAAAATTG AGGTAAAAGA AGCTGACCCA GAACCCACGC CCGTCCAGGC TGGGGAAGTC TCTACTCGCC
CCACACCAGG CCCCGAGCAC CGCGGGCCCG AAGCAGCCCC CAGAGGACAG ACGGGCCCTG CGCACTGAGG TAGCTGCATC
TTAAGCCCCC ATGAGTACAA CTGCCCAGGG CTGCCCAATT CCCAGAGGGG AGGAGGAGAG AGAGGCAGGC AGGGGGAGCC
CCGGCTTCAG GTGGGGCACA CCCCANACCC TCAACAAACC TTCCAGCCTC TTCGGGCTGG GGCACTTCCT GCC

SEQ ID NO:1844: (Length of Sequence = 274 Nucleotides)
CTTCGCTTCT NAAAACCAAA CTCCAGCCGC TGCCAGTCGG GACTTGGTCG CCCGNCGCTG CCAGAATGCT CCACTGCCAG
CCGGCCCCCC TCCCTCGGTT TCCCTTCTGT TTAGTGGCGA CACACGCACC CAGCTTTGGG GTGGTGCTGAGCGTCCCAGG
GGTGCCAGGA GCCACTGGGA CAGGGTGAGG CTCCCAGACG CTCCTCGAGG TGCCCAGCTC TCCAGGGAGC TTCTGGNCCA
AGGNCGTCTG AGGGATCTGC TCCTTAACCN CCCA

SEQ ID NO:1845: (Length of Sequence = 441 Nucleotides)
GGGGAGGGGC GCACACACGA AGGGAGGTGT CAGCCGGGAC CGGAAATCCA ACACGGCAAA GGAAAAAAAA CACAACCCGT
TTCCCAAAGG GAGGAGCAGC AGGAGACGAT GAAGAGAAGG AACAGAACTC TCTGGGCAAT TCTGATGTAC ACCCAGGTAC
AGTGGGGATC TCTTCACTTG ATGCCCCAAA AAAGGGATAA ACAAACAAAA AACGTGAGCA GCCAGCTTCA TTCTCTTCTC
TGCTTTGTCT CTTGCCAGTG ACTTTGGGTT TTGTGTTGAA GCTCTCTTAA TTCTTTGACC TTGAAGTTCC TCAACATCTA
TCCCAGTAGC CTCAGTTTCC ACTTTGCTTC AACTAACATC TTGGACTTTT TTCAGTCTTG AACAAGGCTA AACCTTTGAG
ATCTTGAACT CGGACTTCAG CCTACTTAGC TTGATACTAC C

SEQ ID NO:1846: (Length of Sequence = 255 Nucleotides)
ATGAATTCAT TGTGTATTTA TTATTCACAG TTAATCACTA CCTACCAAAT GCTATCCGCA GAGTTAAAGG ATTAAGTACA
TAGGTCTTTA TTTAAACACT GATTTTTTTT TTTAAATATA TACACACAAA ACTTAGTTCA GCAAGGCTTC ATGATATACA
CCAATTCCAA AATAAAACAA TCAAATGGTC CNGGNGTAGA ATGCCAGATT CCTTTTATCA TCTGCGAGGA AAAGAGAAGC
AGGATGAGGA AGAGT

SEQ ID NO:1847: (Length of Sequence = 3.   leotides)
CAGGGCACAC GCAGGACCAC TGTGGATTAG AAACCCAC.   TCACTCG CAACATTCCT CCCACATCCA CATCCACGAC
GGAGCCAAAT CTCATTTGTN ACCCTCAGTC ACCACCCC   ATGGAGC CNCTGGTTAC GNCATGGATG ACAGGTGTCA
TGCACAGGGA GAGAATTTNT CCCCGGATAC CCCTGAGG   GGNCCAC CCCCAGGCTA GGGTGGGAGG ATTTAGAGCA
GTGCAAGAAA CCAAGGAGGA TGGAGCATCC AAAGGAAG   AGGCAGGC TNGGGGATTG AGGGCAGGAA GGGCT

SEQ ID NO:1848: (Length of Sequence = 311 Nucleotides)
CCACTGGCCT ACATTATAGA AGTGCTGTAT GCGGACCCTG CCATTGTCAT CATGGACGCA GGCCATGACC ATCATCACCA
CCCATTTTNT TGTCTGAAGA GAATCCAACT GCTACCCAAC CATCTGTGTC TGCACTCAGC TCAAATTCTA CATCAGCCCC
TATCATCCGG TAGCTGAGGA AAATAGTCACA GGTCTCTGCA TTACAGCCTG GTTTGCCATA TCTAAAGCAT CCCTTAGTTT
TTCCACAGTC GTCCACTTTG ATTTTGGCAA ATGGNTCCAC AGGAGAAGCA GCAGGGCTNN GTGTCGGGTG T

SEQ ID NO:1849: (Length of Sequence = 318 Nucleotides)
GTGAGTCCCC CAAGAGGGGC CTCAGTCACG AATGTCGATG ACCAGTGGGC ACAGGTGGAG TGAGTGCTTG ATGCCCATGG
TGAAAGCAGG GATGTGGGGC TTGTGCACAG TGANCTGCTG GACCTCGTGG GAGCCGGGGC CAGGCCGTGG CGTGAGGTCC
AGAGGGTAGG CGAAGGCTTG GCCATGCTGT AAGTAGGGCT GCGGTTCTNA TAGATGGATG GCTCAGGTCG GGCGTACGTG
GTAGGTCCAG GGCCTCCTGC CACATCCTCC TTGTAGANCC AGTTCTTGTC CCTGGAGGCC AGACTNTAGC AGGGAGCA

SEQ ID NO:1850: (Length of Sequence = 406 Nucleotides)
GGAAGCCACT GATTTTCCCT CCAGTATGAT GATTTACTTT AAAAATGAAC CCAGAGGGAC GGGCATGGTG GCTTATGCCT
CTAATCCCAG CACTTCAGGA GGCTGAGGCA GGCAGATCAC CTGAGGTCAG GAGTTCGAGA CCAGCCTGGC CAATATGGTG
AAACGCCTGT NTCTACTGAA AATATAAAAA TTAGCCGGGT GTGGTGGTGT GCACCTGTAG TCCCAGCTAC TCAGGAGGCT
GAGGCAGGAG ACTCACTNAA CCCTCGTGGT GGAGGTCGCA ATGAGCCGAG ATTNCACCAC TGACTNCAGC TTTGGCAACA
GAGCAAAGAC TNCGTCTTCA AAAAAAAATA ANAAGGGAAA AAAAACCCNG NAAAAGCTTT TTTATTGTTA AAAACAAGTG
GGTCAC

SEQ ID NO:1851: (Length of Sequence = 328 Nucleotides)

406

CTGAGGGGCA TTTTTTTATTA TAAATTTAAT ATGGTTGATT AATGAAAAAT GACAATGAAG TACCAAGAAA ATGTTTGTCA
ATATAAAAAT TTTAGCAGCA TTTCCATAGT TTCAGGCTCC AACATTAGTC GTACTTCCTC CCTCCCGCTA TCAAAAAAAG
AAGAGACTCC AATGGGATGG AGTAGAGCCT GGGGGTGTCC AGCTTTGTGT GGGCCTCAGA GAAATACTCC ATCCAGCATC
CAGGATTCTC CCTCCCTCTC ATCCCTGAAG TGCTAGAATG TCAAAGCACA GAAAAAGCCT CCTTTGTGCT GACATTGGAG
ACAAGGAT

SEQ ID NO:1852: (Length of Sequence = 174 Nucleotides)
GGGCAGGACG GCTCTNGGCC CTTCCTGGCT GACTTCAACG GCTTCTCCCA CCTGGAGCTG AGAGGCCTGC ACACCTTTGC
ACGGGACCTG GGGGAGAAGA TGGNGCTGGA GGTTCGTGTT CCTGGCACGA GGCCCCAGCG GCCTNCTGCT CTTACNAACG
GAGCAGTAAG GACG

SEQ ID NO:1853: (Length of Sequence = 252 Nucleotides)
GAGCCATGCA CACACACGGC CGCATAGTCA CACACGCATA TCTACATGTC CCCCCCACAT ATACACACAC ACATATACAT
GGACCCATGC ACACACACAG CTGGATATTC ACACACACTT GCACATCCAC TCCATATACA TAGACACGCA CAGACACAGC
TGCATGTTCA CACACGNGGA CGTGCACACG GACACAGACA TGCATGCATA TGCGCACAGG TGTGTACAGC CTCAGTGGTG
GGGGTTGGCT GT

SEQ ID NO:1854: (Length of Sequence = 288 Nucleotides)
GGAAGGAGGG CTAAACAATG GTCTGCAGCT CAGTTACTCC TCATCCTCGC CTGGGCCGGG CCAGCATCCA CTCCCCTTCC
TGTAAAGCAT TTGGATTTCC TTGGGGAAAC AGCCCTGCCC TCTGTCCTGA TCCATGTGTT TTGAGATCTC ACAGTAGCAA
GTGACTCATG TTGGTTCAGT GATTCCCAGA GGCTGATTCA AGGATGTCCC CAGCTAGACC CAGGATGGTG GACTCCAGAT
TGGGGCACTG GGCAGTTTCA CATCCTCAAG GCTTGGCCAT CATCGGGG

SEQ ID NO:1855: (Length of Sequence = 293 Nucleotides)
AAAATGCTTG TTGATATTTT AGTTATTAAT TCATATTAAC TTTGGCTGAA ACTTTTAAAT TCTATTGTGA ATAGTCAAGT
AAAATTTAGA TTGTTACATT CTGGGTTAGT ATTAGATTGT TTTTAAGATT GTTTTAAACA AGATGTTTTT AAGATGAGTT
TTAAATAGTT CTCTTAACAC AAATAAAGCT TAATATGAGT ATTTGAAGGA AATTATCCCA AACCATTCCA GTTCCTGGCT
GTGAAAGGCT TTTCCAGGGC TAATAAGTTT TCCACTTCAG CCGTAAGTAG GTG

SEQ ID NO:1856: (Length of Sequence = 308 Nucleotides)
ATCTTAGCAG AATCTTGAAA AGCCCAGAGA TCCAAAGAGC CCTTCGAGCA CCACGCAAGA AGATCCATCG CAGAGTCCTA
AAGAAGAACC CACTGAAAAA CTTGAGAATC ATGTTGAAGC TAAACCCATA TGCAAAGACC ATGCGCCGGA ACACCATTCT
TCGCCAGGCC AGGAATCACA AGCTCCGGGT GGATAAGGCA GCTNCTGCAG CAGCGGGCAC TTACAAGCCA AATCAGATGA
GAAGGCGGCG GTTGCAGGCA AGAAGCCTGT GGTAGGTAAG AAAGGAAAGA AGGCTGCTGT TGGTGTTA

SEQ ID NO:1857: (Length of Sequence = 299 Nucleotides)
GGGGAAAGCT AATTGGCAAT AATCCTTGCG GGAAGGTCAG ACTCCTCTCT TACAGATCTA GGGAAGGCCT GGTAAAATGA
TGGCTCTTTG GAAAATGCCA AGCTCCTTCA GATTCCATAC CCTCTCGGGC CCTCAAGCAT AGGCAACGAA CTTGTTCCTG
GCTTCACGNT TTCTCATTGA ATCAAAGCTC TCATGCATGG CCTGGATTTG TAAACACATG CTGGCTGCCA GCAGTGGCAA
GTTAGCCTCC TGACCCACTT CTCTCCTCCT TTCACTCTGG TGTATGAAGG GGGATCACG

SEQ ID NO:1858: (Length of Sequence = 295 Nucleotides)

407

TAAGACTTCC TGTTAGTAAA AGCTACCTCA TGAAAAGTAT TGATGTTATT TGCCAACATT TAGACTAGCT TTTGTTACCG
TTTCAGTTAT TCAATTTAGT CAGCACATGT TTGAGTGTCT TACTGCAGGT GAATAATCCA TGATTTCTGC CCCAGAGTAG
TTCATAAGAC TGGTAGGATA CATAGATTTG TAAATAAATA ATTATAATTC TGGGCAGTAA GTGCTGCTAT AGAAGTCTCT
ATAAAGCAAT GTGCAAACAC AAGAAAAGGA GCCGTTAATT CCTTATAGGG AAAGG

SEQ ID NO:1859: (Length of Sequence = 326 Nucleotides)
CTTTATTTAG TGCTGGGGCT TTGGAAGCAA ATGTACCTGA GTTTGAATCT CAGGGATAAC CTTTTGACTG TGGCCCTGGG
TAAGTTACTC ACTGTCTCTG AAACTTCAAG TTCCTCATAA ATAACCTAAG ATGGACAATC ATAACTCTCT CTTGGATTGA
GGTAGGAGAA TATGGTGGAG GCAGGGAACC GAAGGCCATT TCACTCCAAC TTCCTAGAAC TAAATTAAAA GGAAAACCCT
AATTTTCCAT GCCTAAGTAA CAAAAGGACC AAAGGTTACT CCGTTTGCAA ACTCCCACCT TTTCTGCATG GCAGATGGGA
AGTTGG

SEQ ID NO:1860: (Length of Sequence = 294 Nucleotides)
CCACCCCTAA AAGCACCTGG CCCCGCTACA GCAAACCAGG TCTGTCCATG CGGCTGCTGG AATCAAAAAA AGGCCTCTCC
TTCTTTGCGT TTGAGCACAG TGAGGAGTAC CAGCAGGCTC AGCACAAGTT CCTGGTGGCC GTGGAGTCTA TGGAGCCGAA
CAACATCGTG GTTCTGCTCC AGACGAGCCC TTACCACGTT GACTCACTCC TGCAGCTCAG CGATGCCTGC CGCTTTCAAG
AGGATCAGGA GATGGCTCGA GACCTCGTAG AGAGAGCGCT GTACAGCATG GAAT

SEQ ID NO:1861: (Length of Sequence = 183 Nucleotides)
TGAAGACTCC TAATCTAGTG CCTCGAGAAA AGCAGGCAAC AGAGGCCTGA TGTCTGACAT TGACTCTTTG GAAGATTAAA
CTTCCTCACA GATTTTNATA ATNACTTTGG AAATNATGAC TGATCGCCAG GCTGTTCCTT GGGTGGACAG TTTGTCTTTT
TTTTTTTTTT TTTTTTTT TTT

SEQ ID NO:1862: (L   h of Sequence = 296 Nucleotides)
TTCGGCTTCT TAAAGTTC_T CCCATCCCTC CTAAGGTCTA AGATGATGCA TTAAACACAG AGGATGCCCA ACAGTGGCTG
ATGGAATTAC CAAGTAAAAT CTAAGAGGTA GAAAAATGTG GTAGTTTTTA AATTTTATTT TATTAGTATG CAGGTGGGAT
TCAGAGACGT AAGATCTTAG CCTTTATTTT CAACATCTCC CATGCATGTC AACAAAGATT ATCAAACACA GGAAGTGAAT
AAAATACTAT GTAGACACTG ACCCTCTTTA TATAAAATGT GATTGATCAG GTCTGG

SEQ ID NO:1863: (Length of Sequence = 259 Nucleotides)
CAAAACAAAA AGGGGCTCAA ACCAACAGGA AGTCAGCCCC ACCGCAAGCC GGACTACAAC TAACTCGTGC TCTCCACGCT
CAGGCGTGGA AGCCAAGGCT GTGCCAGGCC TGGCCAGGCC AAGCAGGATG ACAGCAAACG CATTCTGAAC GTNTAGCAAT
CAGGTCCCCT GTAATGTGCT TGGAGAGTNT GGACAAGGGC CGAGATGACG AGCTATGAGC TGTGGAAGGG AATGGGGGAA
GCAGAAGGGC ACAAACAGA

SEQ ID NO:1864: (Length of Sequence = 290 Nucleotides)
ATCCTTACCA ACAATGCTTC CCAACTGCCT CAAAGCTCTC CTAAATGAGA ACATAGTTCT TTCTGAGCAA GGTCCTGTGG
ACCATGAAGA ATGTCACCAA GCTCCCCTCA GAGTCAGCGG GAGCTCAGCC AAAGCACAAG TGCAGTGCCC AGCTCCTCCC
ACTCTGCACC TGCTGCCTCA NACTCCCCAC GCTGAGCCCA GGCCCCTACC CTCTGAAGGT GTTTCCCATG TGATTCTGAC
ACACACACCC CACAAGAACC AGATGATCTA TGNCATACNG CATTTNGCTA

SEQ ID NO:1865: (Length of Sequence = 236 Nucleotides)

408

CATTTCTGTT ACATTGAGAC TTCAGTCACC AACATCTGGT GGCAGAGATA CAGGTGTATG AAACATTTCT ATTTACCCAA
ATATGCCAGT TCCCAAATAG GATGACTGCA TTTAGTGTTA AACTGGCTTT TCTCATTAGA TACTCTAATT GAGGAATATT
TAGCTTCTTG AATAGAAACC ATCCAAATGA TGTTTTTTTT TTGATATGTC TGTAACTATA AAAATCAGCA AATAAG

SEQ ID NO:1866:   (Length of Sequence = 424 Nucleotides)
TACGGGAAGG CGGTGTTTGG AGGCTGGAGC CGTGGCAACG TCATTGAGAA AATGCTCACA GACCGGCGGT CTACAGACCT
TAATGAGAGC CGCCGTGCAG ACGTGCTTGC CTTCCCAAGC TCTGGCTTCA CTGACTTGGC AGAGATTGTN TCCCGGATTG
AGCCCCCCAC GAGCTATGTC TCTNATGGCT GTGCTGACGG AGAGGAGTCA GATTGTCTGA CAGAGTATGA GGAGGACGCC
GGACCCGACT GCTCGAGGGA TGAAGGGGGG TNCCCCGAGG GCGCAACCCA GCACTGCCTC CGAGATGGAG GAGGAGAAGT
CGATTCTCCG GCAACGACGC TGTCTGCCCC AGGAGCCGCC CGGCTCAGCC ACAGATGCCT NAGGACCTCG ACAAGGGTCA
CCCCTCCTCC ACCCTGGACT GGCT

SEQ ID NO:1867:   (Length of Sequence = 256 Nucleotides)
AAACAATTGA AATCCACAAG AAATTACTAA CAGCACGTGT TTACGTTTTA TCCTGAATCA TACATTTTAA CAATTCACAG
CTACAGGAAA TCTAGAACAA AATCAAATAT TCATCACGTT GGGTTGAAAA GTTGGAAGAT TTTGCATCTT ATTGAAAAGA
ATTTTTCAAA AATGTTTCTG TACAAATGAA TGGAATTGCA CCAGGCTGCC CATGGACACC AGGTGTGGCC GCTTCCCAAC
GGTCACCCAC CAGCTT

SEQ ID NO:1868:   (Length of Sequence = 297 Nucleotides)
CAAGGTTTTT TTTTATTTGT AGCTATAGCT ACAACTTGGC AGCATGGGGG AGGGTGGGAA TGTCCTGGAG GGTCTCCCAG
CCCTCCGCAA GCAGAGTACA AAGGCTGCTC GGGGGGCCGG CCGAGGGCGC GGNTGCAGCA GTGNAAGCAG CAGCACTAAA
CCTGGTGCCC CCCTCAGGTG GGGTGTCTGG AAGACGGTGG GCAATCCCTG CAGGATGGGC GAGGACCAGA CCCCAGGGCG
GGGATCCTGC ATCCCTAGAC CATGTTGGGT CCTGGGTCAN GGCACCTNGG NATGCTA

SEQ ID NO:1869:   (Length of Sequence = 470 Nucleotides)
CAGACATCTG GAGCATGGGA CTGTCTCTGG TAGAGATGGC GGTTGGGAGG TATCCCATCC CTCCTCCAGA TGCCAAGGAG
CTGGAGCTGA TGTTTGGGTG CCAGGTGGAA GGAGATGCGG CTGAGACCCC ACCCAGGCCA AGGACCCCCG GGAGGCCCCT
TAGCTCATAC GGAATGGACA GCCGACCTCC CATGGCAATT TTTGAGTTGT TGGATTACAT AGTCAACGAG CCTCCTCCAA
ACTGCCCAGT GGAGTNTTCA NTCTGGAATT TCAAGATTTT NTGAATAAAT GCTTAATAAA AAACCCCGC AGAGAGAGCA
GNTTTTNAAG CAACTCATGG TTCATGCTTT TTATCAAGGG GATCTNGATG CTGAGGAAGT NNGATTTTTT CAAGGTTGGN
TCTGCTNCAC CATNGGGCTT TAACCAGNCC CGGNACAACC AACCCATGGN TGNTGGNGTT TAAGNGTTTT

SEQ ID NO:1870:   (Length of Sequence = 344 Nucleotides)
AGAGATTAGA TTTGTTAAAC ATCTAGGTTA AAATGGTTAA AAGGATTTTC ATACAATTTT AGGCACTATA CACGTTGTTT
ACAACAGCAT TGGTACTTGG ATATGGGGAA AGATAAATCC GACATTTTAA TATCTTGATC AATTTGTGAC ATTCAAAATA
ATTCCATTTA AGAAACATTA ATCAAAACTT AAAGAGACAT ACCACTAAGT ATCCCACACA GTATACTGAA AATAAATATA
GNAATACAAC CAGAAGTCTA CAGNTCACCA CAGTAGACAG ACTGGTGAAG NCCCAGCTTT TCATGGGCAG TNAAGGGCTC
TGGGCTAGAT TTGGGTGTCA ACTG

SEQ ID NO:1871:   (Length of Sequence = 278 Nucleotides)
GGATTTATTG TCATTCCTCC AAGGTCAGCA GGGGAAGGGG ACACCAGCCA CACTTCACCA CAGGCATAGG TGGCACTGAG
CCACCTGGCA CTATCTCCAC GTGCTCCACA CGGAGGGGTG CCTTCTCACT GGCAGCAGCT GCACTTCTCT GCTTCTGCCT

409

CAGCTGCCTC TCCGCCTTTG CACACACAGT CCTTGGCACA CTTCTCACAC TNCGCAGGCA GCAGGAGCAG CAGCTCTTCT
TGCAGGAGGT GCATTTGCAT CCCTCGCACT TGCAGGAG

SEQ ID NO:1872: (Length of Sequence = 271 Nucleotides)
CTTGCCATCT TCACAGCCAG AAGCTTCCTT GCTTCATGCG CAGACCCTCG TGACTCCCCT TCCCTTATAA GGGCCCCCAT
GATTACTCAG GGCCCACCTC AACCATCCAC GGTCATCTCC CCACCACGAA ATCCTGAACT GAAGCACAGG CGCCGGGTCC
CTTTTGCCAC GCAAGGTAAC ACTTTCCCAC GTCCTGGGGT TCCAAACCTG CACATCTCTG GGGGCTGTTA TTNCACCCAC
CGTCATCAGT GAGGCGCCTT NAGGAGGGGC T

SEQ ID NO:1873: (Length of Sequence = 332 Nucleotides)
CAGGGTATAG TGCAGTGGCG CAATCTCGGC CCACCACAGT CTCGACCTCA TGGGCTCAAG TGATCCTCCC ACCTCAGCCT
CCCAAGTAGC TGGGACTACA GGCATCCTCC ACCATGCCCA GCCAATTTTT TGCATTTTTC ATAGAGAAGG GGCTTCACCA
TGCTGCCCAG ACTGGTCTCG AACTCCTGGG CTCAAGCCAT GGAATTGCCT TGGCCTCCCA AAGTGTTAGG ATCACAGCCG
CGAGCCCCTG GACCCGGCCT ATAGTTTTTG TTTCGCTTTG TTTTTGTTTT TTGAGATGGA GTCTCACCCT GTCANCCAGA
TGGGAGTGCA GC

SEQ ID NO:1874: (Length of Sequence = 317 Nucleotides)
CTCTCCACCT CAACCTCCAG CCCACCTCCA GGCTGGGGAA GGGGCTGAGT CTTCCCCTCC CATACATACC TCACCCGGCC
CCCAGCCCAC AGAGAGGCTG AGGGAGGGGC TCTGGGTCCT CCTCCATCCC TGTACCTGCT TCTTCCCTCT TCATTTCCAC
CTTCTAGATC TTTCCCCCCA CCCAGCCCAC CTCCAGGCTG GGGAAGGTGA GGAATTCTTT CCTCCCACAC CCTACCCCAC
CTCACCTGCA GCCTGTGCCC TGGGCCAGGA GAGGCATGGG TGAACAACCA GACCCACAAC CCCCGACCCT GCAGGCT

SEQ ID NO:1875: (Length of Sequence = 185 Nucleotides)
GTGTTCCACC CACCTCGGCC TCCCAAAGTG CTGGGATTCC TGGCGTGAGC ACGCTGCGCC TGGACAGTCT GCCCCTAGAT
GAGTTGCCCA GCACGGTACA GCTACTGCCT GCCCCGACCC CAGCCCCTGA TTCTACCGCC GCTCGGCAGG GGGACGGCCA
GGGAGAGGTC CAGCCGCGCG GCAAG

SEQ ID NO:1876: (Length of Sequence = 214 Nucleotides)
CCTGGGGACA AAATAGTCAG CAAATTCTCA AGGGGAGAAA ATAAAGTACT TCCCTTCTGT TAAAAAAAAG TCAAGAGACA
AATCTTTCCT CCCCCATTCT CACTAATAGT TATTGAAGGG GAAAAAAAAA AACCCCACAA CTTTTTAAAC TAAAGATAAA
AACAAATGAA AATGAATAAG ATCCAAAGAA TGTCTTTTGT TACTCTGCCT TATG

SEQ ID NO:1877: (Length of Sequence = 340 Nucleotides)
TTTGAAGAAG AAGAAGTTGA ATTTATCAGT GTGCCTGTCC CAGAGTTTGC AGATAGTGAT CCTGCCAACA TTGTTCATGA
CTTTAACAAG AAACTTACAG CCTATTTAGA TCTTAACCTG GNTAAGTGCT ATGTGATCCC TCTGAACACT TCCATTGTTA
TGCCACCCAG AAACCTACTG GAGTTACTTA TTAACATCAA GGCTGGAACC TATTTGCCTC AGTCCTATCT GATTCATGAG
CACATGGTTA TTACTGATCG CATTGAAAAC ATTGATCACC TGGGTTTCTT TATTTATCGA CTGTGTCATG ACAAGGAAAC
TTACAAACTG CAACGGCAGG

SEQ ID NO:1878: (Length of Sequence = 326 Nucleotides)

410

GAAAAACAAG GAAAATAGGC AACAACCTGC AATGGACACT TTTCTCTACA GAACCTTTTC AACCCTGAAT TGAATTGTTT
CCTATTCATT TNCTAATAAA AAGTTACTTT GCAAGATATA AGGAAATACT GTCCCAAAGA TTTTCACTAG TCATTCAATC
CATTAATAGG ATTTGAAAAG GCATCATTAC ACAGGGTTGA AAATACTCTG GAATGAGACT GCTTTACAGT CAGAATGCCT
GAGTTTTGAG GCACTGTTAC TTCTAAACAT CTCTAAGTTT CTATTTNCTC ATCTAAAGGA GTAATATTAC TTTCCTTAAA
AGGTTG

SEQ ID NO:1879: (Length of Sequence = 222 Nucleotides)
GAAAGGGAGA GGTTGCAGCG AGCCAAGATC GTGCCACTGC ACTCCCACCT GGGTGACAGG GCAAGACTCC ATCTTAAAAA
AGAAAACCCA GGAGTCTTTG GTTAATGTAG TGCAGGACTC TGAGCTCCCG GGAGGACCCT TCCCTCCCAG ATGAACTGTG
ATGGACCAGC CCAAAGGAGG GGAGAGAGCA CTTNGGCCAT AGTGGTGGTG GATCTTTCTA AC

SEQ ID NO:1880: (Length of Sequence = 244 Nucleotides)
GACATGAATG GTATCCTCCT GGGGTATGAG ATCCGCTACT GGAAAGCTGG GGACAAAGAA GCAGCTGCGG ACCGAGTGAG
GACAGCAGGG CTGGACACCA GTGCCCGAGT CAGCGGCCTG CATCCCAACA CCAAGTACCA TGTGACCGTG AGGGCCTACA
ACCNGGCTGG CACTNGGCCT GCCAGCCCTT CTGCCAACGN CACGACCATG TAAGCCCCCT CCGCGGCGAC CTCCTGGGCA
ACAT

SEQ ID NO:1881: (Length of Sequence = 156 Nucleotides)
GTACAGGGGA GAGTTGAGCT GTGACAAAGT CAAACACAGG CCTTGGCCAC CCACAGGAGC TCTGCAGCTG GGGTGGTCTT
GAAAGTTGTC TCAGTGAAGG CAAGGTGCTG AGCTTATTAC CCCAGCAGTC ATTGTATTTA GGCTCCGTGT GGTACC

SEQ ID NO:1882: (Length of Sequence = 210 Nucleotides)
TTTTTTTTGA AACGAAGTCT CAGTCTGTCA CCCAGGCTGG AGTGCAGTGG CACGATCCCG GCTCACTGCA ACCTCTGTNT
CCCAGGCTCA AGCTAGTCTC CTGCCTCAGC TGCCCGAGCA GACGGGACTA CAGGCACCCC CACCACGCCC GGCCAATCTC
CAAATGGTTC TTTTTTTCCG GAGTAGTAAG TTACAATATG GGAGATTATT

SEQ ID NO:1883: (Length of Sequence = 214 Nucleotides)
GTGATGAATA CATCCAGTTT TCCAACCACA TTCCACCAGG TGGGTGTTTG GCTGTGGGAC GCATTATGTA ATCTTCGTTG
CCAGGAAATT TACCTTCCTA ATTACATTTT GCAAATGTTC ATTTGAAGCC GCCTTCTTGG AGCTCACAGT AACTAGGAGG
TGGCTGCTGG AAGCCCCAGG GCACCGTGGG AGGGACAGGG GAACGTCCCA GACC

SEQ ID NO:1884: (Length of Sequence = 211 Nucleotides)
ATCTTTCGCT CTATGTGCCA TCACCTGGAC ACTCTAGGTA ATACCCCCTG TTGGGCAGGG GTGAGCTCCC AAGGCCTCAG
GCAACCCAGC TCCCATGACT TTGCTGGGCT CAGCCCACAT AACTGTTCTC ACAGGATAGA GTTGTACACT GGTGCTTACA
GCTTTCCTGG GCCAGTGTTG CATGCTGCCA GTGGCTGCAG CAGCAGCCCC A

SEQ ID NO:1885: (Length of Sequence = 212 Nucleotides)
ATTAGCTGAA TTCGCGTGTG GCGGTTTGGG TAGGCAAAGG AGACATCTTG GAACTGGACA AGGCCCTCCA AGTGTAAGGG
AGTCAACAGA CCACTGGGTG GGCAGCGAGG GGTGCGGTCC AGGTACTCAA ATATTTTCTC TGAGGAGCCC ACAGCCTTCT
GTACTCTGGG GTAGATGGAG AGCAGTACCT CCACAGCCTG GGTGAACTGC AT

SEQ ID NO:1886: (Length of Sequence = 208 Nucleotides)

411

CATCCGCATA GTATTTACAT CATGGGTATA GGCAAGTNCT ACAAATCAGG NCTTTNCCTT GGGGATGGAT GTTTGGAGCT
AGTTTACCAG CACACCAGTG GGTAAAAGTG AACAAATACT TTTTTGATCC CACAGAATCT TAAAAAATAC TTTACTTCGA
AAATGTCTCT ACTAAGTAAT CATATATATA TATATATNTG TATATATA

SEQ ID NO:1887: (Length of Sequence = 332 Nucleotides)
CTCGTTCACT GCCCGCCAAC TCCCATTCCA ACTTCCTTTT TACACTGGAT GTTTCTATCA CATCCTGAGG ACCACTAACC
CACCAGCAAG TCTCCCCCTG ACACACATTC ACGTAGGTCC ATACCCTTCA GAGTCCTAAA GGGTTAATGA GAAGCCACCT
CAGCTTTGGT GAATGGAGCC CCAGCCCCAA ATCCCCTCCC CTTGCAAATA TGGGACAAGT AGGGAGAGTC TGATGGAGGC
ACCAGGACAA CTACAACAAC CTCTTACCCC TCAGCTATAG ACACCTAGAT CAGGACAGAG GGATGCATAT GCCCTCTCCA
CCTTAACACC AA

SEQ ID NO:1888: (Length of Sequence = 224 Nucleotides)
AAGAGCTGAT TGAGGCTGCC AAGAGGAACG ACTTCTGTAA GCTCCAGGAG CTGCACCGAG CTGGGGGCGA CCTCATGCAC
CGAGACGAGC AGAGTCGCAC GCTCCTGCAC CACGCAGTCA GCACTGGCAG CAAGGATGTG GTCCGCTACC TGCTGGACCA
CGCCCCCCCA GAGATCCTTG ATGCGGTGGA GGAAAACGGG GAGACCTGTT TNCACCAAGC AGCG

SEQ ID NO:1889: (Length of Sequence = 261 Nucleotides)
CACTTTACTG AGTCACACCC AGCTGTAAAC ATGTCACCGT GAGANTCCCG CCCCCCACCC CCAGGCCGCA CAGTCCGCGA
TGAAATGACA GGGGAGCGGG GAGGGTCGCC GGAGCGGGTG CCAAGCAAGG CAGGGCAGGC AAGTGCAGCA GGCGCTGAGT
TTCCGGGAGG AAGCCCGGAG GAGGTGGGGT GGGGCAGGAG CGNGGGCTGG GGACCCGGCC GAAGACCAGG GGGCCCAGGA
AGCCTCTTTT CCGAAGGNCT T

SEQ ID NO:1890: (Length of Sequence = 312 Nucleotides)
CTGCGAGACT ACGAGACGGT GGTCAAGGTG AAGCCCCATG ACAAGGATGC CAAAATGAAA TACCAGGAGT GCAACAAGAT
CGTGAAGCAG AAGGCCTTTG AGCGGGCCAT CGCGGGCGAC GAGCACAAGC GCTCCGTGGT GGACTCGCTG GACATCGAGA
GCATGACCAT TGAGGATGAG TACAGCGGAC CCAAGCTTGA AGACGGCAAA GTGACAATCA GTTTCATGAA GGAGCTCATG
CAGTGGTACA AGGNCCAGAA GAAACTGCAC CGGAAATGTG CCTACCAGAC AGAGAAGATT ACAGTATGTG GG

SEQ ID NO:1891: (Length of Sequence = 298 Nucleotides)
CCTAAAGGCC AGGCAAGGCT GATTCTCCAC TTCCACATGA GACAGAGCTG ATTCTGCAGG GAAACGGCTG GGGAGGCTCC
ACCTCTTTCC TCCCCACAAC CATTTACTGG GAAGTTGTGT ATACTTGGCA GTNTGGGAGG AAGGTACTTG GAAGACCCTG
CCAGCCATCT CCCACCCAGA CTTCTTCTCA CCAGCACAGT CTTCAAGGCT TGGTGGGAAA GGTGTGTGGG AGTGGAGAAA
GACAAAGGGC CCTTCTTNAA GAGAGGAGCT GCAGAGAGGG GCAAAGGGGT TCCTAGCC

SEQ ID NO:1892: (Length of Sequence = 333 Nucleotides)
CTCCAAGGTC ATCCAGTCCG TCGCTAATTA TGCAAAGGGT GACCTGGACA TATCTTACAT CACATCCAGA ATTGCAGTGA
TGTCATTCCC AGCAGAAGGT GTGGAGTCAG CGCTCAAAAA CAACATCGAA GATTGCGGTT GTTCCTGGAC TCCAAGCACC
CAGGGCACTA TGCCGTCTAC AACCTGTCCC CGAGGACCTA CCGGCCCTCC AGGTTCCACA ACCGGGTCTC CGAGTGTGGC
TGGGCAGCAC GGCGGGCCCC ACACCTGCAC ACCCTGTACA ACATCTGCAG GAACATGCAC GNCTGGCTGC GGCAGGACCA
CAAGAACGTC TTC

SEQ ID NO:1893: (Length of Sequence = 487 Nucleotides)

412

CCAGATAGAG TTTCTGTTTT TNAGTTTTAC ACGTGCCACA TCAGGGAAAG TTAGGTTATG ATTAAAGCAA GAGATGATAG
ATGAACAAAC AAAGAAACAA CAACAAAAAG CCCATGCAAG AGGCAGGAAA AGAGGCTGAC TGGTTAAAGA ACAGGCCAGA
TTGGACAATA CTGATCAAGA GGGGTTCACA TTTGAAAGAA CAGTGCTTTA TTCCTCTACT GACTAGAACT AAAGGGATTT
TGGCCGGGTA CGGTGGCTCA CACCTGTAAT CCCAACACTC TGGGAAGCCA AGGTGGGCGG GTCACGAGGT CAGGAGTTCG
AGACCAGCCT NACCAACATG GGTGAAACCC CATCTCTACC CAAAATACAA AAACTTTTNC CGAGCGTGGG CCCGGCGTTG
GTTGGCTCAT ACATTTNATN CCCCCNCTTT NGGGGGCCCA NCCGGGCGGT TCACCTTAGG GTCAAAGGGT NCGGGGNCCT
TCTTGGC

SEQ ID NO:1894:   (Length of Sequence = 283 Nucleotides)
GGTGGTGAAG TGGGCTCTGG AGAAGCTGGA GCTGACCAAG TACGCAGACA AGCCGGCTGG CACCTACAGC GGCGGCAACA
AGCGGAAGCT CTCCACGGCC ATCGCCCTCA TTGGGTACCC AGCCTTCATC TTCCTGGACG AGCCCACCAC AGGCATGGAC
CCCAAGGCCC GGCGCTTCCT CTGGAACCTC ATCCTCGACC TCATCAAGAC AGGGCGTTCA GTGGTGCTGA CATCACACAG
CATGGAGGAG TGCGAGGCGC TGTGCACGCG GCTGGCCATC ATG

SEQ ID NO:1895:   (Length of Sequence = 234 Nucleotides)
ATGTCCATTA GCCTCATTTG TCATCTGAGG GAGCTGGTGA GAACAGCCTT GGCGTGAAGG CATCCCTGGT AGAAGTCGGG
GGAGATAGAT AGTCACAGTT CCCCAGTTGG TGGAAATNGG ATNGGAGTAG GGAGAGGCTN GAACAGACCC TTCCCCATTC
ACCTGGNGAA TTTTCTCCTC CCACTGCCCT AAACACTTTA TTTCCATCAC AGGGGAGAAA TNCTGCTGAG AAGG

SEQ ID NO:1896:   (Length of Sequence = 285 Nucleotides)
CTTTAAAGTG TAATAATATG ATTTTTTAAA AGAAATTTAT TACTTGTTGC AAAGGTCTTT TTAAACCAGT TTAGATTTCA
AGAAAAAATA AATGGAAATC ATCGAAAATT CATTTCACAT TAATGGTCTA AAAATAAACC AAAGGACATT ATGTGTGCAT
GTGTGTATAA GTGCACACAG AAATATATAT NCATATGTNG ACTATATACA TGTGTGTATA TATGTGTATA TATACATNCA
CTTGTATAAA TGTATATACA CATATACCTA TAATGTGTGT ATGTG

SEQ ID NO:1897:   (Length of Sequence = 288 Nucleotides)
GCAGGTTTAT GTTTTTATTT ATGTATTTNA ACTGACTTAT TTGTGTATCC CACTAGAACA ATACATTCAC AATATACTTG
CAGAACTGTG CCTGGSGSAT CATGGGAGCA GAGAACTTGT CCAGTGAATA GTTGTTGAAG AAAGGAGTAA AAWCTCCCCC
AAACCCTAAA GGCATCCTTT TCGTAGTGTG TGTCCCAYAG GTATGGCTGC TGAGCACCAG GGGCTGCTCA CCATGNTCCC
AAGAAGCAGA GTCANGGAGG CAGACAGCAG GGKTTATTAA GGTGCACA

SEQ ID NO:1898:   (Length of Sequence = 398 Nucleotides)
CAGAAGTAAA AGATTTTTAT TGTTCTATAG ACACTTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG
TTTCATCCCC AGAGACTGAC TGAAGGCGTT ACAGCCCTCC TCTCCAAGGC TCAGGGCTGA GAACGGTTAG CATATCGAAT
GATCAGTAAA AACATGCAAA AGTGAGAAGG AAAGGGAAAA AGGTGCATTC CCCTAAGCTG AGGGGGATGG AATTTCAGAA
CAGAGGAGGC AGGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCCTCTGT GTTATCTTTC AAAACAGTTC CAAGCTTTGA
GAAAGCAATG AGCTCCACCT ACTCAGCAGA CCCACGGGTC GTCCCCCTGG ACGTGACTTA GCAGTGACCT TGCCTGCC

SEQ ID NO:1899:   (Length of Sequence = 227 Nucleotides)
CATGGGACC CGGGTTTATT TTATTAGGAA GGAAACAACC AAGCACCCCA TGTTCCTGCC CGGMACTCCC GGGGGGAACA
TGCCAAAMAG CCGGGGATCG AAACCCAGCCC ACCTGTCGTG GRGGKCCCTT CCTTCTCAGG CCACAGAAAT AAACCCGTGT

413

ACTTYTTATT GTTAGCACAA CATTACCAGA AAACGKTAAC GGCAGCCAAG CAGGACAGAC AGTTAAG

SEQ ID NO:1900: (Length of Sequence = 405 Nucleotides)
GGGATGCACT GGGTTTCACA TCAAGTTCTT GAGAGGWTCC CGAACGACTT CTCTGCCCCA GGGGAGTCCG AGCCACAGTT
TTCTGATCAA CTGATGATTC TRACCCGCTT CTTTCTCTCT GGGGGGTAAG ACACTTGTTG TTGAGCTCTG GGGATGATGG
AGAACGACTC CTCGGCCTAG GAGTCTGAGG CAAAGCTTTC GGTTCTGGGG AAGAATCACA TTCGCTTCTC CCTCTAGATG
GCGTTCTAGG TATATCTTTC ATTCCAGGAG AGGACCCAGA CAGGCTGTGC CTCGAGGGAG TCCCAGACCC ATCTCTAAGT
CCTGGAGAAG ACCCAGACCT GCTTCTCCTT GATGGAGTTC TGGTAAACCA TCTTTCATTT CAGGAGAAGA TGCAGACTAC
TTCTT

SEQ ID NO:1901: (Length of Sequence = 244 Nucleotides)
ATRATTCATA TGCTAGTTTA TTTATCTTAT TATTGAGAGA TAATTTCATG ATGACAGTTA TCAATAATCA ATTACAAATAT
CAAGAAATTC AAAGAACAAA ATCTTGCAGA GACTATGCTT TTGTATTTGG ATTTAAAAAG TATGTGATCT CATTTTCACA
TACCAAGCTG AGAGGCCATT TAGACTATCT CTTTGCTAAT TTTTGCTTAC TGCTGTAGGG AAGAAGATTT CCAATGAMCT
TTAG

SEQ ID NO:1902: (Length of Sequence = 329 Nucleotides)
TAAAAATAAA AAAATAAATA AAATTTTAAA AATAATAAAA ATTCACTATA TACACATATA AAGAAATAAA AAGAAGTCTC
AGTTGCAGCT ATTTGTCAAA ATTAATATCC ATTTCTWTTW ATATACGGTG AATATTGCGC AATTATAGAT CTGGATTTTA
AACCACTTAA TGAAGCGGCA ACACCAGGTG TTTTAAGGTG TTGGCATTCT TCGCTGATTT GGCTGTTCCC AATGTTTACA
TTATTTAATC TTGCAAAAAT GGTTCTGATG CACTTGGGAT GTGAAATGCT GTCCCGTTTT ATTTTTTTAA TGTTGTTATC
CTTGGGTGT

SEQ ID NO:1903: (Length of Sequence = 421 Nucleotides)
ATTTTATATT CCACAGTCAG GTGGGTCTGC GATASTCATT TAATGTTAAA CGCCATCAGG GGCCTCTCCT CCCGTTTCTG
CCAGGGGCTT TTCTTGTCTT CTCCTTGGTC ATCATCATCA TCGTCTTCCT CTTCCTCGTG GGCAGATCTT CTCTGGTGGG
GGCTGGCTGC TGGCTCCGAG GGGGCATCCG CAGTCCGTCT GGTCGTCTCC TCCTGCAGGC TGGGCAGCTG GCCACCACTT
CTCCGACTCG ACCCCTCCAA CAAGCATCGC AGGGCACTGT CCTCGGGGGT ACAGACCGTG GTCCCACATT CGCTACCACT
CTGTTCCACG NCATCCAGGG TACACGAGCT GCGTGTAGGC CGTGCTGTCT TGGGGCTCGA GGCTCTTTCT GCTGGTGCTC
TTGGACGGGC GGGTAAATTC T

SEQ ID NO:1904: (Length of Sequence = 423 Nucleotides)
GTCTGTCGGC CCTGTCTGAA GTGACGGTGC AGCCAGGCTG CTCCCTGCCC AGCAACCCCG AAGCCATTGT GCTGGACGTC
GACTACAAGT NTGGGACCCC GATGCAGAGT GCTGCAAAAG CCCCATATCT GGCCAAGTTC AAGGTGAAGC GATGTGGAGT
TAGTGAACTT GAAAAAGAAG GTCTGCGGTG CCGCTCAGAC TCTGAGGATG AGTGCAGCAC GCAGGAGGCC GACGGCAGAA
GATCTCCTGG CAGGCAGCCA TCTTCAAACT GGGAGACGAC TTCCGGCAGG ACATGCTGGC CCTGCAGATC ATCGACCTCT
TTCAAGAACA TCTTCCAGCT TGTCGGCCTG GACCTCTTTG TTTTTCCCTA CCGCGTGGTG GCCACTGCCC CTGGGTTCGG
GGTGATCGAG TGCATCCCCG ACT

SEQ ID NO:1905: (Length of Sequence = 370 Nucleotides)
CAGAACCAGA ACATTTTTAC TCTTTGGGCT CTGGGAAGGG CCAGGCAGAG TGCAAGGTGT CCACAGGAGG GGTAAGCAGA
GAGGAGCTAC AGGGGGCTGC AGTCCTAGTA CCCTGTTGGG GAGGACTGAG GGATGGTGAG TTTGGTCTCC GGAGGGGGCT

414

CCAGTCCTGG TGCCCAGTTC TNACANCTGC CCCTCCTGAG TTCACACTGG AGTCCTTGCA GTCCTGAAAC CACAAGGCCT
NCCTGAACCC TGGGTCAGGA GAGAAANACT TGGGGAGGGG AAAGGACGGC GTGGGCTACC CATKACGGCT CTGAGTTCTT
CCTGGGGCTT GTGTCTTTTC CTTGGCAGAA GAGGGCACAG CCAAAGGCAA

SEQ ID NO:1906:   (Length of Sequence = 415 Nucleotides)
GTCACACCTT CATTCAGTGA GGAAGAAATG CTTTCACTCT GGGAATTCAC AGCATCCCAA TCTGACGTTG TACCCGTGTG
ACACTGTTTG TGAGCCCCAA GTTTCAACGA GCTCTTGCAA GTAAACGGAC ATTCGTCACA TTTGTAGACA GCTGTCTTTC
CAGATAAGTG GATGTTTTCT ATGTGACGAG AGATGCTACG TCGATGCATG GTGAGGAAAG GACAAAAGGG GCACTGGAAC
CTATTCATGA ATCTNCTAAA TGGAATCCCC TTGGTCTCCA ATAATTTGTT GCCATCTGAG CCCATCAGCT GCTCTGCAGA
CAGGCCTGAT GTCTGGTGAT CCACAGCACT TAAACCATTC TCACTTGTCT ATTTCATTTA ACTCTTCATC AGAACTAGAG
TCATTAGCAT GCTGT

SEQ ID NO:1907:   (Length of Sequence = 214 Nucleotides)
TGAAATCCTG TACGTGTCAA CTTTGAAATG TATGTGTGTT GGTTGGGTGG TGGTGATGTG ATACGGTTTG GATGTCTGTC
CCCTCCAAAT CTCATGTTGA ACTATAATCC CCAATGTTCC AGTTGACGTG GTGTTTGGTT CCATGGCGGG GTACCCTAGG
GATTCATCTG TTTTCTTCAC TTCCCTTTGC ATCTGAGATC CTGCTGGAAA CCAC

SEQ ID NO:1908:   (Length of Sequence = 410 Nucleotides)
CAGGAGAGCT GGGCACATGT CCCAAGCCTG TNAGTGGCCC TCCCTGGTGC ACTGTCCCCG AAACCCCTGC TTGGGAAGGG
AAGCTGTCGG GTGGGCTAGG ACTGACCCTT GTGGTGTTTT TTTGGGTGGT GGCTGGAAAC AGCCCTCTCC CACGTGGCAG
AGGCTCAGCC TGGCTCCCTT CCCTGGAGCG GCAGGGCGTG ACGGCCACAG GGTCTGCCCG CTGCACGTTC TGCCAAGGTG
GTGGTGGCGG GCGGGTAGGG GTGTGGGGGC CGTCTTCCTC CTGTNTCTTT CCTTTCACCC TAGCCTGACT GGAAGCAGAA
AATGACCAAA TCAGTATTTT TTTTAATGAA ATATTATTGC TGGAGGCGTN CCAGGCAAAG CCTGGCTGTA GTAGCGAGTG
ATCTGCGGGG

SEQ ID NO:1909:   (Length of Sequence = 339 Nucleotides)
AAAATTAAAT CCAAATTTTA TTAAGGATTT CAGGTTACAT ACTTCAAATT TCTAGAATGG AATGGAATCA TTTTGGAACT
GGAAAAATGG CATAAACACT GACGTCCCTT AAAACTTCAA TTTTATAAAG AAAATTCTTC TGCAAACCAC ATCCCCTTTA
TGTAACAAGA CTAGGTATTA TCTACACCTT CACTTTGGCA ATAGCTATTT CCTAAAGAAT GAAAAAGATG ATTTTNCTAC
TTCAGTTCAT TAAAAATGGG ATTCTATCTT TGAAGTTCAG AAAAAGCTGC ATTTCGATGA ACTATGGGTT AAAAAAAAAA
GCACATAGTG TCTAATCAA

SEQ ID NO:1910:   (Length of Sequence = 439 Nucleotides)
GGCCCAGGGA GCACCAATCA CAGCAGGGGC TCTGGCCCAG GTGTCGGCAG CCCAGGCCTC CATTTGCTAA TGATTAATAC
ACTGTTTGGG CTGGCCAGTT TTTCATGCAT GCAGCTTGAC GATTGAGCAC AGTCAGGCCT TTGTATTAAA AATGAAAAAT
GAAAAAACAA ATTCAAAACC TATTCAAATG GGTTCTAGTT CAATTTGTTT AGTATAAATT GTCATAGCTG GTTTACTGAA
AACAAACACA TTTAAAATTG GTTTACCTCA GGATGACGTG CAGAAAAATG GGTGAAGGAT AAACCGTTGA GACGTGGCCC
CACTGGTAGG ATGGTCCTCT TGTACTTCGT GTGCTCCGAC CCATGGTGAC GATGACACAC CCTGGTGGGC ATGCCCGTGT
ATGTTGGTTT AGCGTTGTCT GCATTGTCTA GGAGTGAAC

SEQ ID NO:1911:   (Length of Sequence = 342 Nucleotides)

AATGCACCCA TTTGGCTGCC AAGAGCTTCT CACTGCCTTG CTAGCAGCCT GCCACTGTNC CCTGGCAAAT TGAAACCACC
CACGCAAACA CTCAAAACCC CAATCTCCTT GCTAATAAGA TACAACCAGT TAACACCGTG AAAAATGCAC ATCTCCAGCC
TTCATTTCAA AAAAGAGCTC TGTACTAAAT GCAATATGCT TTTAAAGGGG GTTTTACAGG GACCAATCTC AATGCAAAGA
CCAGTACCAG ATGTCTGAGT TTTGGTTACA GGTTTATAAT TAGACACAAA ATTCACTCCA CACTGGAGTT TTACTTTCAA
GCTGGAGTTA GCATTAGTTC TA

SEQ ID NO:1912: (Length of Sequence = 380 Nucleotides)
TCATGCTTTT AATACAAACT TAAAAAAATC TGGAACAATA GAAACTGTAC AGATTTGATC AATCTTTTTG TTTTGTTTTT
AAACTAAAAT CTCTAAACAC ACCAATGTCC CATTCCAAAA TATTGCACAA CATTCTGAAT ACAAAACCCT TGATTGTATT
CCTCCTNCAC TAAAGAAAAA AGTTCATGAC CCTGCTCCCC GGGCTCCTCT CCAGGCTTGC CTCAATGCCC CCTTCCCATC
CCTAGGGAGA AAACTAGAGA ATCTATAACT CACTGCATTG AGAAAAACAC ATCATTCTGG ACTAACAGTT TTCCATTCTT
CAGANGGNTA ATCCACCTTT TGGATTTGTT CCTGGGGAAA GAGGGGTAGA TAGAGGGATG

SEQ ID NO:1913: (Length of Sequence = 361 Nucleotides)
GAGACAGAGT TTTGCTCGTT GCCCAGGCTG GAGTGCAATG GCGTGATCTC AGCTCACCAC AACCTCCACC TCCGGGGTTC
AAGCCATTCT CCTGCCTCCG ACTCCCGAGT AGCTGAGATT ACAGGCATGT GCCACCACGC CCAGCTAAGG CTTTGTATTT
TNAGCAGAGA TGGGGTTTCA CCATGTTGGC CCGGCTGGTC TCAAACTCCT GACATCACAT GATCCCCCCG NCTCAGCCTC
CCCAAGTGCT GGGATTACCG GTGTGAGCCA CTGCCCTGGG CTCTCCAGTA CATTTTTAGG GGGACGATCA ATGAGGATTC
TCTTCTCTGA GTTACTGCAT GTGTTACAGT TTATAATCCT T

SEQ ID NO:1914: (Length of Sequence = 409 Nucleotides)
GGGGGCCTTA CAACTAGGTA TGGTGGATAT TGCCCGACAG ACGGTTGAAT TTCTCTACGA AGAGAATGGT GGCATCCCAA
GAGACCTTTA TCTTCCCACC ATTGAAGACA TTAAAGACGA AGCAAACAAG TTCACAATTG ATAAAGTTCG AAAAGGTCTC
ACAGTAGTAA CCCGCTCTCC AGACAGCAAT AATGTAGCCA GCAGTGCTGT TGGAACTGCT CTGCCAAAAT TTGCCATCCG
AGGGATGCTG AAAACCTTTG GGCTTCATGG AGTCGTCTTA GATGTTGATT CAGTGAATGA ACTGGTGCAG GTAGAAACGT
ACCTCCGCAG TGAAGGTGTG CTGGTGCGAT ACTTGGTATC CTATTTGACA TGTTGGGAAA GGGCCCCCAG CAGGCTACCG
AARGGACTT

SEQ ID NO:1915: (Length of Sequence = 402 Nucleotides)
ATGGTTTATA GCAGGAATAC TTGTTCTGAA TGACTTGGAG GGAAAGTGTG TGTGTATATG TGTGTGTGTG TGTTGTTAG
TTTTTGTGAG GTAGGGGAGA CTATTTTTGT GGTTCAGTCA CTCCAATTAT TGCCACAATG CACTTTCCTT CATAACTGCC
CCACCAAAGG TCTTAAAAGC CATTTTTGGA GCCTATTGCA CTGTGTTCTC CTACTGCAAA TATTTTCATA TGGGAGGATG
GTTTTCTCTT CATGTAAGTC CTTGGAATTG ATTCTAAGGT GATGTTCTTA GCACTTTAAT TCCTGTCAAA TTTTTTTGGT
CTCCCCTTCT GCCATCTTAA ATGGTAAGCT GAAACCTGGG NCTACTGTGG CTCTAGGGGG TAAGCCCAAA AGGCCAAAAA
AA

SEQ ID NO:1916: (Length of Sequence = 382 Nucleotides)
GAAATGAGAC TTTATTCTGA AATTATTAAA AAGAACAGAG ATGCTCCATT TGGCTGCATG CAGGGGGGGC GGTTGGGGGG
ACAGAGGGGA GGACAGGGGC TCAGCCAGGG GGACCGTGTC TCCTTCCCAC GCAGGACACT GTGCATGGGG CTCTGGGTGC
ATCTGCCCAT CTGTCTATTG GCCTGTGTGT GTTTTGCAGG CCAACACACG ACAGCTCCGT GGGTCTGTGT GTATCCAGT
GCTAAAAGGC AGGCTGGCTT TCTGGGGCCC ACAGCTGGCG GGCTAGTATC CTGGAAGGTT TCACTTGGTG GCTTGGCCTA

GGGACCAGCA AGGGCTTGGN GTTGGAAGGG GTGGCTCAAG GAAGCCTCTT TCTCCACTCA CA

SEQ ID NO:1917:   (Length of Sequence = 375 Nucleotides)
GAGATTAAAA TAAACAACAC AAAATGTATT TAAATGAGAA ATTGAAATAT TAAAAATAAT ATTAGGTGAC ATTAAAACTG
TCATAGAAAT AAACTGTATA TACAACAAAT AAATCAATGA TTGTTAACTT TTTTAGACAG TTTGAATATC AGATTATAAT
GAATAGCATT ATTAGCCAGT AAAAAGAGCA TATAAATTAT TTTAAAATTC CAAATAAAAA TATTTAAAAT TTTGAAATTT
TGGACCCAAA ATTATGTCAG TAATTTCATG AAAGTAGATC TCCAATAGGT CCTATATTCT AGACACTATG AAATGACATC
AGAAACCGTC AATTAAAGTG TACCCCACAA GTGATAACTA GCTACCATAC AAGTT

SEQ ID NO:1918:   (Length of Sequence = 315 Nucleotides)
AATATACAGT ATGATACACT GATGTGCAGA ATGTGATTAG TTTATTAATC ATATGTGAAA ATATTAGTAG CTACATATGG
CCAGAATAGA TTTTYCTCTC TACAAATGTA AGTTAGTGTT GATAGAATTT GTTATGCGAT ATTTGGTTCT TTGGTTTCAG
TCTCAATGCT TTCTTCTTGG CATTTCATTG ACTCTGTAAA TTAACCTCAG CATCAATTTT CTTTTAAATT CAACAGTTAT
TCAAATTGAT CGGAAATTAA ACTTGTATGT AGCTAGTTAT CACTTTGGGG GTACACTTTA ATTGACGGGG TTCTG

SEQ ID NO:1919:   (Length of Sequence = 285 Nucleotides)
CAGAAGTAAA AGATTTTTAT TGTTCTATAG ACACTTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG
TTTCATCCCC AGAGACTGAC TGAAGGCGTT ACAGCCCTCC TCTCCAAGGC TCAGGGCTGA GAACGGTTAG CATATCGAAT
GATCAGTAAA AACATGCAAA AGTGNGAAGG AAAGGGAAAA AGGTGCATTC CCCTAAGCTG AGGGGGNTGG AATTTCAGAA
CAGAGGWGGC AGGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCC

SEQ ID NO:1920:   (Length of Sequence = 181 Nucleotides)
GCAGGTTTAT TTTTTTATTT ATGTATTTNA ACTGACTTAT TTKTGTATCC CACTAGAACA ATACATTCAC AATATACTTG
CAGAACTKTG CCTGGSGCAT CAGGGGAGCA GAGAACTTTT CCAGTGAATA GTTTTTGAAG AAAGGAGTAA AATCTCCCCC
AAACCCTAAA GGCATCCTTT T

SEQ ID NO:1921:   (Length of Sequence = 351 Nucleotides)
AGACGGGGTC TCACTCTKTC GCCCAGGCTG GAGTGCAGTG GCGCAATCTC AGCTCACCGC AACCTCCGCC TCCCAGGTTA
AAACGACTCT MATGCCTCAG GCTCCCGAGC AGCTGGGACC ACAGGCACAT GCCATCATGC CCGGCCAACC TTCTGTACTT
TTWAGTAGAG ACGGGGTTTT ACTGTGCCAC ACAGGCTGGT CCCGAACTCC CGACCTCAGG CGATCAGCTR CCTCAGCCTC
TCAAAGTGCT GGGATCACAG ACGTAAACCA CCATGCGGGG CCCCAGTCTT TTCTTCAGAG GGCTCCTNAG CACCCCCAAC
CCCAAACCTG AGGCCTGTGA GAGTCTATCC G

SEQ ID NO:1922:   (Length of Sequence = 198 Nucleotides)
CCTCATCTGG ACACAGATGA TTTGCCAAAG AAGCGGCCTG CCCAGATCTG CAAACCTTGC AACCCAGCAC TCTTGCATAT
CTCGCTTAGC GTGTCCACAA CTGGGATGCT AGCTGGCGTA AAGATGCTCA CGCAGCCACC AGTGCCTCTG CCGTCCATAA
GTGCAGTGTG ACTTACCCTC TGAGAGTGGC ATCTGCTG

SEQ ID NO:1923:   (Length of Sequence = 303 Nucleotides)
TTGATTTGCC TATGGTGTGA AATCCTTTGT TATTTTTCTA AAAAAATAAA ATTTAAAAAG AAAGAAAACT AAGGAAGAAC
AAGANGCTAT TTACCCAAAG TGAGCTTNCA GTTTTAGTTT TGCATGGCTG TTTGACTGCC TTTCCGCCCT ATGAAAATCA
AGAAAATCTT TTTTAAAAAT GGAGTCCTGC TATTTTCCAC TCCTTGCAGA TAATACAAAT TCAGTTTGTC AGGTTGGATG

GTGAGTTGGG AGCTGTGATG GATCTGTTGG CGGGTTTTGG ATGTGTAAAG AATGATATAT ATA

SEQ ID NO:1924: (Length of Sequence = 231 Nucleotides)
GTCCTCCCTG ATTCTCAACC TTTGCAACCT GCCTTCCGTC ACTGCTAGGT CCACGTAGGC TTAACCTTGA TCTTATATGT
AGGACCGGTC TTCACCTTAA GCAAGAGAAA TGTAAGAAGT GNTTTCCCAA CTCAGTTGCT GGCCCAGCTT TGGCCTCGTG
TTCCCTTTCT GAGGACTGAC CTTTGGTATT GCTCTGGAGT CTCATATCCC CTTTGGCCCT AACTGACCAC G

SEQ ID NO:1925: (Length of Sequence = 249 Nucleotides)
GTTTTTACTT AACCATTCTA TTGTTGGGAA TTGGGTTTCC ACTTTTTTNT TATAGATAGT GGTGCAGTGA ACATTTTTAA
ATAGCTTTTT NCTTCAGTGT AATTATTTCC NTAGAGAAAG TTACCAAGAG TGGTTTTACT AGTTCAGAGG GCTTCAGGAT
TTTNATGGCT CTTNCTAGCG GTGCTCTATT ATCCTNNAGA AGACTTGTAT TACTTCCAGT GTCAAGAAGG TTGCNCTTCC
ATGGAATGG

SEQ ID NO:1926: (Length of Sequence = 367 Nucleotides)
TTTTTCTCAG CAAGGAACAG TCATGAGAAA GAGAATGCGT TCCTAGGGGG AGGTCTCTAA AATGGCCACT CTGGGACTGT
CTGTCTTATA TGGTTGTGGA TAAGGGATGA AATAAACCCC GGTCTCCCTT AGCGCTCCCA GGCCTATTAG GACGAGGAAA
TTCCCGCCTA GTAAATTTTA GTCAGACTGG TTGTCTGTTC TCAAACCCTG TCTCCTGATA AGATGTTATC GATGACAATG
CATGCCTGAA ACCTCATTAG CAATTTTAAT TTCGCCCCGT GCTCTGCCAT TTGCCTTGTG ATATTTTATT GCCTTGTGAA
GTATGTGATC TCTGTGACCA CAACCTATTC GTACANTTCC TCCCCTT

SEQ ID NO:1927: (Length of Sequence = 231 Nucleotides)
CTTTTATTGG GGCGGATAC CGCAAGGGCC CGCCCACGGT CAGGTTAGTG TTCTGCTCTT GCAGAGGCGC KACAGCCTGA
CACCTCCACC TGCCACCCGC CGGGGGTTAG TGGAACATGC AAAGCTCAGA GGGTGGAGGC AGGGGTGGTC GCTGCTGAGA
CCAGGGCTGN GTGCAACAGG AGGGTCAGCA CAGAGCCTGG CTGGTGTCCC TGGGCCCAAA GGGGGCTGGG G

SEQ ID NO:1928: (Length of Sequence = 283 Nucleotides)
CCCCTTGCTT CCCCTGAGCC CAGGTATGTA ATTCCTACAC ACACTGATCG AGCTTGTNTG TGTGTGTATA TGTGTGTGTG
TGTGTGTNTT AATGTGACAT GCATGTACTG ATCCNGAGAA GCCTTTATAC CAAGAATAGA GCTGGGATCT CAAGCCCACC
CTCCCAAGAT CAGACAGCAG AGTGAACCAG GAGGCCACGA CAGGCCTTGT GTCARATGGC AGACGNTGCA GCAGGAAGCA
GAACCACGGG ACGGGGRNCA TGGGATGCTA TKGGCAGCCA GCT

SEQ ID NO:1929: (Length of Sequence = 287 Nucleotides)
CTAGGAAGTA GGGAGAGAAT TTACTAAGTA AGGAGAGAAA GGAAAAAGAA CAAACATGGA ATATGNTCAA GCAAATAACT
TCCAACAGAA ACAAGANGAT ATGTTTTAAA ATATATTTCC CCTGCCCAAT AGTAAAACTT ATTTCAGGCA CAATGCATTA
CTGAGGTGAA ATTAAAGTTA CATAAAATTG AAAACATCAC ACTGGANAAC ATTTCATGGG GCTCAACTGA AGGTGGCATA
GTCCAGGAAG GCATTTGGAC ATGTATGGGG TGTTTTCTTG TTGCCCC

SEQ ID NO:1930: (Length of Sequence = 357 Nucleotides)
ATGGAACACT ACTGCAACAG CTCCACAGAC CGGCGGGTTC TGCTCATGTT CCTGGACATC TGTTCAGAGC TGAATAAGCT
CTCCCAGCAC TTTGAGGCTG TGCACTCTGG CACCCCAGTC ACCAACAATC TCCTGTGAAA ATGTAAAT CTCCCTAGCC
AAAGCAACGA CTTAAGCAGC CTCAGAGCAA AATACCCTCA TGATGTGGTG AACCACCTCA GCTGTKACGA GGCCCGGAAC

418

CACTACGGCG GCGTGGTCAG CCTCATCCCC CTCATCCTAG ACTTAATGAA AGAATGGWTC GCCCACTTCG AGAAGTTGCC
GCGCAAGGTG CTGCAGGGCA CGCGGGCTGC CTGCACT

SEQ ID NO:1931: (Length of Sequence = 343 Nucleotides)
ATCACTTCCC CACCCCACAG GATCTGCCCC AGAGAAAGTC CTCGCTCGTC ACCAGCAAGC TTGCGGGTGG CCAAGTTGAA
TGATGCTGCC CGGGGCTCTG CCAGATCCTG AGACGCTTCC CCTCCCTGCC CCACCCGGGT CCTGTGCTGG NTCCTGCCCC
TTCCTGCTTT TGCAGCCAGG GGTCAGGAGG TGGCTCGGGT GTGGGCTGGA GAGGCAGAAG CCCTTCCTG TTGGTGTCCC
AGCACATGGA GCCCCTTGGG CTGAGCACCA AGACCTTGAA CCTTTTTTGT TTTACCTTTT TTCCAAATAA CAGTTTGGAG
AAATATCAAT GAAATCTGGG GGT

SEQ ID NO:1932: (Length of Sequence = 314 Nucleotides)
TTTCATGGGT TTTTGTTTTG TTTATTTCGA ATACTGAAAA AGTCCTTTGG GCTCTGTGGG GTTCCCCACG CTCACGGCTC
CTTTCTCCCA CACTCACTGC CCTTCTTCCC ACAGCAAATC TATTTCAAGG ACAGTACTTT TTAAAATGAT TAATGTTGAG
TTCTCAACTA GCTCTGCAGA ACTAGAGGAG CTGTTTGCAT CTGTCTGTGC GGATGGAGTT TCTTTTATCT GACACCAGGT
CTCCAACCAC ACTGATGCAA GGCATTTTAT CTACAGAGCT CAACTAGAAC CCCTTTTTCA TTAGGCTACT CCAA

SEQ ID NO:1933: (Length of Sequence = 378 Nucleotides)
AGCTTCCTGC GGGACCACAG CTATGTGACT GAAGCTGACA TCATCTCTAC CGTTGAGTTC AACCACACGG GAGAGCTGCT
GGCCACAGGT GACAAGGGCG GCCGGGTCGT CATCTTCCAG CGGGAACCAG AGAGTAAAAA TGCGCCCCAC AGCCAGGGCG
AATACGACGT GTACAGCACT TTCCAGAGCC ACGAGCCGGA GTTTGACTAT CTCAAGAGCC TGGAGATAGA GGAGAAGATC
AACAAGATCA AGTGGCTCCC ACAGCAGAAC GCCGCCCACT CACTCCTGTT CCACCAACGA TAAAACTATC AAATTATGGA
AGATTACCGA ACGAGATAAA AGGCCCGAAG GATACAACCT GAAGGATGAA GAGGGGAA

SEQ ID NO:1934: (Length of Sequence = 239 Nucleotides)
ATTTAAATTG ACAGCCTTCC ATTTTTCGAG AAAGTACAAA CAGAACTGCT TTAGCACCCA TCGAGCCCCA AACGGGTAAG
GTAAGCCAAG GTTTTAATGA CCAGCCCAGT ATCTAAGCTT CCAAACGGAT GCCAGCCCAT CACATACTYA CCCTGGGAGG
CTGCTGCACG GGCATTCTCC YGATGCTCAC GGCACTTGGK GTAGGTTTCA RGATCGCCTC TTTGAGGAAG GACTTCAGG

SEQ ID NO:1935: (Length of Sequence = 319 Nucleotides)
TTAATTTTTT TNTCCCATAG AGGAATAGCA TTACAGTCTA ACAATCAGAA TTCTGTTACA CACATACACA GGCATGCCAC
ATGACCCAGT TGAGGTGGTT GTNTCCTTGA GTCTGTTGAC ACGTCACATG GTCAAAGTCT CCTCATTTCA GCCAGTCTCA
ACACAAAACA CCCAACAGGG ATGCACTCAA CTTGTTGGTT CCATGTGGAA CTAGGTGGCA GGGCGAGAGG GAAAGTAGTA
GAAGGGGGCT ATGGTGTGTC TGCATTCAGT CCCCTCACAT AAAGCCACAT GGATCTAGGG GGGTATCCA AGAGCTCTG

SEQ ID NO:1936: (Length of Sequence = 415 Nucleotides)
CTATTTTTAC AAATTATACC TAATGAGTAA AATTAGTGTA AAGTGATAAC ATGCTTCTAC CTGTATTTCT AGTGACCCTT
TAGCGGCAGG TATTTATACC TGGTATTTAT GATGCAGTAT ATAAGTGGTG AACAATAACT GACAGTATTG TGCTTGCTGT
ACATGTCTGG TCTTTTGAAA CAGATTTTAG TAAGCATTTT CCAGAGGTAA AACTGTGTCC TTATTCTAAT TTTATTCCTA
AGGAAAGTA GACAGGGATT ATTTCCTTGA ATCTATTTCC AAATTAATAT TTTTTTCTtT GGTATTTCTA CACTTTAAGG
CCtTTTGGTC CAATTTAGAA AGTGTTTGCC TCCCTtCCGC TAGCCACATT CtAAATTAAC TTCCAAAACC TCAGGAACAG
TACAAGGAAT TTGAA

419

SEQ ID NO:1937: (Length of Sequence = 393 Nucleotides)
TCACTCTTGT CACCCAGGCT AGAATGCAAT GGCACAATCT CGGCTCACTG CAACCTCCGC CTCCCAGGTT CAAGTGATTC
TCCTGTCTCA GCCGCCCAAG TAGCTGGGAT TACAAGCACT TACCATCACG CCCAGCTAAT TTTTGTATTT TTAGTAGAGA
TGGGGTTTCA CCATGTTGGC CAGGCTAGTC TCAAACTCCT GACCAGCGGT GATCCACTCA CCTCGGCCTC CCAAAGTGCT
GGAATTACAG GCGTGAGCAC CGCGCCCAGC CTGTNTTTCA TGTTAGATCA TAATATGATC TCACCAGATC CTTACTGAAA
ATGTACCTTA TTACAAGTAG CTAAATTTCC ACATAGAGGG NTAAAAAGAT TGGGGAATCA GGTTATGACT TTT

SEQ ID NO:1938: (Length of Sequence = 407 Nucleotides)
GGCCTCCCTG TCGGGTGCAA TGCAGTGGCT CAGATCATAG CTCACTGCAG TCTCGAACTC CTGAGCTCAG GCAGTCTACC
TACCTCANCC TCCCAAAGTG CTGGGATTAC AGGCGTGAGC ACCGCGCCCA GCCAGAACAT CTGTTTTTAC ACCCAGAGAG
CGCCCCTCGT TAGGACAGAA CCACGGTGCC CAGAGCCAGG AAGCCGCCCT CCTGGCGCCC AGCATCTGAG CTTCTACACG
TGATGGGCGG GCTCAGGAGA GGACAGGGAG TCGTGGTGGA AGTTCCACAG CTGGCCGCGT GGGGGGGCCC TTGCACCGCA
CTTGCCGCCT CCTGACTGCC CCGATCCCCG CAGCCCCTGT GCCGGATTGC ATTTYCCTCC TNTCTYCCAG GGTACTGGCC
CCAGCAA

SEQ ID NO:1939: (Length of Sequence = 412 Nucleotides)
GACATGCCAC CACACCAGTT AATTTTTTGT ATTTTCAGTA GAGATGGGGT CTCACGATGC TGTCCTGGGT GGTCTTGAAC
TCCTGAGCTC AGGTGATCCA CACTTCGGCC TACCAAAGTG CTGGGATTAC AGGCGTGAGC ACCGCGCCCG GCTAAAAGAA
AGGAGATTCT AATGCATGCT ACAACACCGA TGAACCTTGA GGACATGACG TTACGTGAAA TAAGCCAGGA ACAAAAGACG
AAGGCTATAT GAATCCACTC ATATGAAGTA CCTCGATTAG CCAAATCCAT ACAGAAAGTA GAACAGTGGT TGCCGCGGGG
AGGGGGAAAT GGAAAGCCTA TATTTAATGA GTCCAGAAGC TTTTTTTTGG TTTTGTTTTT TAGACGGAGT CTCGCTCCTG
TTGCCCAGGC TT

SEQ ID NO:1940: (Length of Sequence = 421 Nucleotides)
ATCCATCCCC TTGCCCAGGG CCTCACATGC CCGGCTCCCC CAACCGGTCC TTCCCCTTGG GCTGCCGGTG CAGCTGTGGG
CCCAGGCTTT GGCAGGCCCA GCTTCAAGAC AGTGGACACC AGAAAACACT TTGCAGCATC GCCTCTCCCT CCGCCACACC
CAGGTCAGCA GAGATGGGCC CCCCACCGAG AGATCACAGC TCTGGTACAG GGAGGTGGGC AGGGTTGGAG AGGAATGGAG
AGACATGTCA CCTCTATAGA AACGCGTCCA AAGTACAAGC TAAGCAGGGG GAAGGAGGAG GGCCAGAGAG CAGCCGGAAA
GAAGAAAAGA GGAACACGGC AGGGGGTTCT KGGGGAGGAG GGCCTCACAM CACCCCGCAG ATGAGCGTCT TCACCACGAA
GGTGTTCTTC GAAGTKGCGG T

SEQ ID NO:1941: (Length of Sequence = 377 Nucleotides)
GTCAGCTCTA GAGGCACCCT GCATCATGCC CACCAGGGTG ATCCCCCTGG GATNGACCAT CTCGGGATAT GAGGCCTCGG
AGGCTGGGGT TGAGATTTGG TCCTGAAGAG CTTATAGCCA GATTGCCACA TTCAAGTGTA AGTCCAGGAA AGGGGCAGGC
GGCAGTGCAC AGGGATTTAT CAGTTCCAGA ACCTCACAGT GATAAGAGGC TTTAGAGAGC ATCTAATCGA GACCTTTAAT
TTTTCGGGGA GAGCAGCTGA GGCCGTGTGG AAAATTAGTG GAGAGCTGAC AAGTGTCTTG GCTCCTGGCC CAGGGGTCCG
TGGTCCANCA CGTTGTCGTT CAGTTGGAAG CAAAGGGCTT GCCCGTGATT ACCTTCC

SEQ ID NO:1942: (Length of Sequence = 401 Nucleotides)
TGAGAACATT AAGAAGGACA ACAAAATTAA ACATTCTTTA ATAAAATTTC TATAGAAAGC TCAGTCATAG GGCAAATACT
CATTTCTCTT TCCATATCA CCGAGGATTG AGAGCTCCCA ATATTCTTTG GAGAATAAGC AGTAGTTTTG CTGGATGTTG
CCAGGACTCA GAGAGATCAC CCATTTACAC ATTCAAACCA GTAGTTCCTA TTGCACATAT TAACATTACT TGCCCCTAGC

420

ACCCTAAATA TATGGTACCT CAACAAATAA CTTAAAGATT TCCGTGTGGC GTGAACCATT TCAATTTGAA CTAATATCCT
TGAAAAAAAT CACATTATTA CAAGTTTTAA TAAATACAGT AGAGAGCTGG CATTTTTCTA AATACTGGAT TTCAGATCTG
G

SEQ ID NO:1943: (Length of Sequence = 351 Nucleotides)
CAACTCAGGT TAGCAACTGC AGGAAAACTT TCTTCATTTT CACTGAATTT TAAAGAGAGA ATCCTGTCTC TATTTCTCAG
AGAAACTTAG GTGAAAAGTA AAAGAGAGGC AAAATCTCTT TCCTTCATGA GATACTTTTA TTTTTATCTC TTTCTCTACT
CATGTGCTTA ACTGGTGAAA TGATTCTGTA GAAATAGATC CTTCTGATTC TGCATCTCAT TTCCTTATGG CAACTACAAC
AGGAGGAATC CAGCTGGAAA TGCCACTAAC CCCACATCCA GCACCTGAGA GAGGAAGCCA GTCGGAGCGC CGTGCTGGGC
TCACTCACTC TGGCCTGCGC ACTGGGGTTG T

SEQ ID NO:1944: (Length of Sequence = 406 Nucleotides)
GCCCAGGCTG TCTCAGAATC TTGATGGGGT GGTCATTGAG CTCCTCTTCC GCCAGAGCAA GATCAGTGAA GTCCTGGGAG
GCAGTGGCTA CAACTCGGAC CGGCTCTGCC TGCCCTACAT TCCTCAGCTG ACAGATGAGG ATCGTTTATC CAAGAGGAGG
AGCATTGGAG AGAACATCTT CCCTGAGGAT CCCGAGGATG GTCTGGTGAA GACCAACATG GAGAAGCTGA CCTTCTATGC
CCTCTTAGCT TCAGAAAAAC TTGATCGTAT TGGCGCCTAC CTCTTTGAGA GGCTCATCCG TGACGTGGGT CGNCATCGAT
ATGGGTACGT GTGCATTGCT ATGGAGGCTT TGGACCAGCT GCTCATGGCC TGCCACTGCC AGAGCATCAA CCTCTTCGTG
GAGAGC

SEQ ID NO:1945: (Length of Sequence = 362 Nucleotides)
TCAAATTGTG AAATTNAGAA TTCTGCTATG ACAAGTGGAA AATTGAGAAA AGACGCAGAG CCACTTTTTG TNATCGTGTA
GGTGACAAGG AGTCTCCCAA GTATATCCTG CTAATAGGAG TAGCTCTCAA AAGTTAATCT CAATAAAGCC TCCTAAAGTC
TCTGGCAAAG AAAACTGCTG CAATCCCTTG TGCAATTCTC CAGACTAAGC TGTATGGGGG AAGCCTACCT TTTTTCAGCC
CGAAGTTCAG GAGACTGAGG ATGTAACTGG GGACATGATC ATTGNTTCAA AGGTGATTGC TTAAGTATCT TAAAAATGTA
TAGAGCTAAT CTGAGTACCG CTTAAATTCA AGAGCCGTGG CT

SEQ ID NO:1946: (Length of Sequence = 408 Nucleotides)
AACCTCTNAC CCCCAGGTTC AAGCAGTCCT CCCACCTCAG CCTCCCGGGT AACTGTTCTT TGTAACTCTC TCATCATCGA
GGCTATATAT TAATAGACAT GGTATTAAGC CCACACGAAA CATTCAGAAT TAGAATTGGA TTAAGAAGAC GCGTTTTGGC
ATCACGCTGA CTACTCCTCA TCTCCGTCCT CGGGGAGGGT GATGCCAGCG TGGGACTCTT TGGAAGGCCT ATCAATCACA
GGTGCGCTAA AATCAAAAGG TGGGTCAGTA GGTTAGGGAG GGNGGCGCGA AAGGAGATGC CAGCGGGTGT TAAGAAGGAT
ATGGTCAGAA GAGCTCTTTG TCTCCATCCA CGGGGCCTCT GCTCAGCCCG TGTTGTCTCG GTGAGTAATT CGGGAGCAGT
GCACGGCT

SEQ ID NO:1947: (Length of Sequence = 426 Nucleotides)
CCATTTGACA CTGTTACTAT CTGCAACAGT TCTTGCAGTA GAGGATGCAC TTCAAAGTGC ACTGCTTTAC TGTCTCACTG
GAATTCTAAA AATCTAAGCT TTATCTTTTT AACATTAAGC TGTGTGGGAA TGTAGCAACC TCCTGGGTGG TGGGGTGGGG
GGCATCTTCA ATTATTTAGG TCTCACTGGA AAGTTTGAGA TCAGAGTTTG GTAGGTGGTG TAAGGGGACA ATGAGTAAGG
GAGAGAAAAT ACAGGACTGA CTTGGGGCAA AAAACGCCTG ATAATAATTT GTGAAGCACA TTTTCAAACT CATTTATTCC
TTACAAGGAT CCTAAGAGGC GGGTATTATG TCCNGGTTAT ACCTGGAGGC TTAAATTGAA GGAACATCTN CAAGGGCACA
CAGTTTAATG AATGGCTGAG GTAGGA

421

<u>SEQ ID NO:1948:</u>   (Length of Sequence = 349 Nucleotides)
TTACAATCTG GCTGGAAACA GATAAATTAGA ACATATCACG AGAAACAGAA CAGTTAAGTG CCAAGCTCTG GTGGAGGTTC
TAAGTGCCAG AGGTCAGGAT ATATTTTTAA GTGCTTCTGC TTCCAAACAT CACTCTTTCA AAACAAAACA CAAAGATCCC
CAACCAGCAT TTCTGCCCCC TGAGGCACCA GCAAGGTATA TAAACGGGCT TGCAAAGTTT GATATACGGT CTCCAGCCTG
GCTTTCTTTA GTCTGGGCTC AAAAGCCAGA AACCTCTGGG GGCCAGAGAA GCGCTCTTTG TTTGCCAAAC AGCATTCTCG
CACATCCTGT TCTACAGCAC CGTCAGTTT

<u>SEQ ID NO:1949:</u>   (Length of Sequence = 378 Nucleotides)
TTCATTCCTG ATTTTATCCC AGCTGTCGGG GATATTGATG CATTCTTAAA GGTCCCACGT CCTGATGGAA AGCCTGACAA
CCTTGGCCTA TTGGTATTGG ATGAACCTTC TACAAAGCAG TCAGACCCTA CGGTGCTCTC ACTCTGGTTA ACAGAGAATT
CTAAGCAGCA CAACATCACA CAACATATGA AAGTAAAAAG CCTAGAAGAT GCAGAAAAGA ATCCCAAAGC CATTGACACG
TGGATTGAGA GCATCTCTGA ATTACACCGT TCTAAGCCCC CTGCGACTGT GCACTACACC AGGGCCATGC CCGACATTGA
CACGCTGATG CAGGAATGGT NCCCGGAGTT TGAAGAGCTT TTGGGCAAGG TAAGCCTG

<u>SEQ ID NO:1950:</u>   (Length of Sequence = 357 Nucleotides)
TCACTAACTT TACGAATGAA AGAAAACAAT TCCATCCCTC TCACAAAAAG GACATCTTTT AAGCTTTCCT CCCAATCTAA
CCTCCATGGG ATCTCAGAAA TTCCAATTCT TATAACTCAA ATCCCCACAG TGGTGTAGAT GCATTAACTC CCCGGGGACA
GCAATCTGAG GCAGGCAGGT TCATTAAACA AACATGTTCT GTGCCCTCTG GCAGAGAGGG CAGCAGGACA TGCACTGCCC
CTGAGCCAAG CTGTGGCATG GGCAAGGACA TCAAGTAGCT GACAACGGTC TGTCCATCTC AGCTGGGGCA GAGGGGCCAG
TTCAGCCTTG AAACAGCAGT TNGGGAGTGT CTCAGCT

<u>SEQ ID NO:1951:</u>   (Length of Sequence = 336 Nucleotides)
CTATCTCCCC AAATCTACGT TTCACCATTT GTACTGTTAT TTTTTTAGCC CAAGCCACCT TTATGTCACT CCTGGAACAT
AATAACTGCT TTCTCACTCA TCTCCTACAT TTTNACCTCT TATAATACAG TCCACCTTGT ACCGAGCAAC AAGAGTTATC
TTTCTGAAAT GCATATTAGA TCATGTCACA TCTCTACTTG AAGCTCTCTA AAGATTTCTC ACTAAAAGCG AAGTCTAAAA
TTTCCACCCA GACCTATAAG GNCCTTAAAT GATCTTACCT CTCTACCTAC CTCTNCGATC TTACCTATCT TCAACCTCGG
TTCTATTTTC TATATC

<u>SEQ ID NO:1952:</u>   (Length of Sequence = 413 Nucleotides)
CAGTATGTAA TTTAATCAGC AAATGCCCCA TTTCCATCTC TACCGGAAAG CTTTCAGACG CATTCCCAGA TCAGACAGAG
GACTAGGGTT AAGGCTGGGA ATGAAACACC AGCTAGTATC CCAGTGAGCT TTCCCAAACA CACATACACA GCAAGTCAGA
CTAAACAACG TCCAACTGAA GACTCACCTC AAATACTTAG ACCTAAGATT CACGTCCAGG CTCTTTCAGA TACACCAGGT
AAGTAAGCAC TTGGCATTCC TATCTCAGCC ATTCACTTCA CAGAATCTTT TGGGTGCCTA CTGTGTGCCC AATACTGTGC
TTAGTGGTAC TTGCCCTCAG CAGGAAAAAA AATTAAAAGT GTTAAATGTT ATGAAGGAAC AGATTGGNAT AGGAATCACA
AGGCATTCAG GTC

<u>SEQ ID NO:1953:</u>   (Length of Sequence = 382 Nucleotides)
GTTTCACTCT TGTTGCCCAG GCTAGAATGC AGTGGCGATC TTGGCTCACT GTAACCTCTG CCTCCCGGGT TCAAGTGATT
CTCCTGCCTC AGCCTCCCTA GTAGCTGGGA CTATAGGTGC ATGCTGCCAC ACCCAGCTAA TTTTTTTGTA TTTTTAGTAG
AGACACGGTT TCGACATATT GCCCAGGCTG GTCTTCNACT CCTGAICTCA ANTGATCTGC CNACCTAAGGT CNCCTAAAGT
GCTGGGATTG CTGGCCTGAG CCACCGCACC CTGCCTAGAA CATGCTTTTN AATAGTGTCT CTAACCATCA TGTTTAGGGC

422

CTTAGTGCTT ACCTCTTAAA GAAGGGCTGC TGTTGAGGAT TCCNTGAGAT AGTGTTTGAA AA

SEQ ID NO:1954:   (Length of Sequence = 389 Nucleotides)
GGAAAAGCGG GACCCAAACA GTGGTGCTGG GGAAATTTGT TCCTGTTCCC TTTGGAAGGC TGAGTGGGTG ATGCAGCACA
GGAACAAGGC TTGGACGTCA GAGGTCTCAT CTTCACTGTG ACAAAGCATA AAGGACTTGG GGTTGAGCGT GTGTNTGGGC
TCAAGTGACC ATGCAAGTNC TGTCACCTCC TTCCTAAGAC CCCATCCTTC TCCCAAGTCC TCCACAAGAG CTACCTTCTT
CAAAACAATA ACAGAAACAC ATCAAGNTTN GCGTCACTGA AATTGAAGTT CTGAATTCTG CCGTCACCCC AGCAACAGTG
CCAGTTATGA TGAGACACTT GACCCAGCAC TTGGGTTGAT GTCTTTGGCT GTTACCGTGG CACCTAGGT

SEQ ID NO:1955:   (Length of Sequence = 277 Nucleotides)
GCCTCTAACT CCACGGCTCA AGTAATCCTC CTGCCTCAGC CTCCTAAGTA GCTAGGACTA CAGGTGCACA CCACCACACC
CAGCTAATTT TTTTNCTTTT TGATTTTTGG TAGAGATAAG GTCCTACTAT GTTGCCCAGG CTGGTCTGAA ACTCCTGGCC
TCAAGTGATC TGTCTTAGCC TTCTGAGTAG CTAGAACTAG TTTTAATGAC CNAAAGAATT ATGTGTTCAC CNGTGATTTT
ATGTGTTTTG TTAAGACATT CAGAATTTAG AGAAATG

SEQ ID NO:1956:   (Length of Sequence = 380 Nucleotides)
GTGTAATGTT CTGAGGGTGG CGAATGCAGG GGCGCGTTCC TCCCGCTGTC GATCTGGAAC ATCTTCTCGC CAACAAAGAG
CAGGGTGAAG ATGAGGGCAA GCTGGTAGAC AGCATGGCCC AGGATGTTCT TCATCATGGT CCTGGAGATG AGCGGCTTGT
TGCGGCCGTA CGGTTTCCTC AGCAGCAGGG TCTCCGTGGG CGGCTCAGTG GCCAGTGCCA GCNAGGCAAA CGTGTCCATG
ATGAGGTTCA CCCAGAGCAT CTGCACGGCC TTCAGAGGGG AGTCCTGCGT GATGCAGGCG CCTNTAAAGC CACAATCACG
GCCACCACGT TGACGGTGAA GCTGGAACTT CAAGAATTTN GAGATGCTGT CATAGACGTT

SEQ ID NO:1957:   (Length of Sequence = 328 Nucleotides)
TGTGATGTTT CTTTTTTAGC CTGTTGATGT GGTGAATTGT ACTGATTGAT ATTTGAATAT TAAACTGGCT TTGCATCCCT
AGAATATACC TCACCAGGTC ACTGTGTACT AGGTTGGTGC AAAAGTGCTT GCCATTTTGG ACCATGAATT TTGAATCATT
AAAACTAGGC TCAAACACAT CTGTATTAAT CAAAGTAAGA ACCATTACAA TCAACACAAT TTTGCCAACA AGAAATAAGT
TTGTTTACTC CTGTAGCATA AAAATCCGTG CTTTGAGATT CGAGGAACTT TTGGNAAGCA CTTTCTGCAT CCTGCTGGTT
GTGGAAGC

SEQ ID NO:1958:   (Length of Sequence = 254 Nucleotides)
CTAGAAAGTA TCTTCTCTTT ATTTAAGTTA AACAATTTTC AAGGATGGTT TCCATCTATA AAATGGACAA AGTACAAGCT
CTGTACAGCA GTTCTTTTTA AAAATCAACT GGAAAAAAAA ATTACCAAAC TATATTTTGA ATTTGCAAAA CATACTCACA
GATACCATCA TCTGAGCTTT TATGAGGNCA TAAGAAAGGN CCACCACAGA GAAGACAACT AACTTCGGCA CGCTTTGCTC
GAAGGGCTCT TAGG

SEQ ID NO:1959:   (Length of Sequence = 259 Nucleotides)
GTAATACGAG AAAAATCACA ACAGAGTAAT AAAGATATAA AACTTTCACA ATTAACACTC ATCAGTGTGA TAAACTAAGC
CCATGTAAAA GTAAAAATCT CTCACAGTTA ACAAACGTCT TTACTTTCAC TAAGAAGGAA CTGAAATTAA AGTCCTTAGT
CACTTTGGAG GTGGCTGCAA AAGCTCACAA CATAGTTGAT CCTTAAAATA ATTATGAAAG GCAACCAGTG CTGCCTTTCT
CTACTCAACC ATGCAACTG

SEQ ID NO:1960:   (Length of Sequence = 329 Nucleotides)

GACTACAGGT GTGCCCCACG ATGCCTGGCT AATTTTTAAG GTTTTTGTAG AGATGGGGTC TTCCTATCTT GCACAGACTG
GTGTGGAATT CCTAGCTCAA GCAATTTTCC TGTCTCAGCC TCACAAAGTG CTGGTATTAC CCGTGTGAGC CACCGTGCTC
AGCCCAGTCA TGTATTTCTA ATTATTGTAT TTGTGAACTA ATCTATGAAC AACAAAAACA AACAAACAAA CAAAAAGGGT
GGCATTTCTG GGCCACCAGG GAAGGTGGGA TTGGGGTTGC AGCTATTTTC AAATTATATT AAAAGCAGGA TCCCAGTTAG
AGCGCTATC

SEQ ID NO:1961:   (Length of Sequence = 282 Nucleotides)
ATCCTCCCAC CTCAGCTTCC CAAAGTGGTG AGATTACAGG NTCGAGCCAT CGCACCCGGC CCAATTATTC TTTCTAAACC
ATTTCCTCTT CTGTGTTCAT GCCTTTAAAA ATAAAATTAA AAAAAAAAAA AAAAAAAATC CTTAAAATTT CTCAGGTGTT
TTCCATATCA TTTTATTATC AAGAATATGG CTAATCAGAA GTCACAGCCA GCCCCCGAAC TACAACTACA AAACATGCAT
ATTATAGGCT ACACTGAGGG ATTTCTGAGG TTAGCAGATG CA

SEQ ID NO:1962:   (Length of Sequence = 328 Nucleotides)
TGCTGGTGTC CCTGCTGTCA TCCTCAGGAG GCCAAATCAG TCCCAGCCTC TCCCACCATC TTCCCTGCAG CGATTTCTTC
GAGCTCGAAA CATCTCTGGC GTTGTTCTGG CTGACCACTC TGGTGCCTTC CATAACAAAT ATTACCAGAG TATTTACGAC
ACTGCTGAGA ACATTAATGT GAGCTATCCC GAATGGCTGA GCCCTGAAGA GGACCTGAAC TTTGTAACAG ACACTGCCAA
GGCCCTGGCA GATGTGGCCA CGGTGCTGGG ACGTGCTCTG TATGAGCTTG CAGGAGGAAC CAACTTCAGC GACACAGTTC
AGGCTGAT

SEQ ID NO:1963:   (Length of Sequence = 277 Nucleotides)
CCAAGAGACA CCCCCCGCAC TCCTGTGCCC GAGCTGTCTC ATCTGTGATT CACAGTCTGC TCTTTCTGGC TGCTTGTCGT
GAGAAGTGAT TTTNAACCCC GAGGTTAGAA AGGGAGCTAT TTTTGAGCTG CTTTTTGTTA AAAGGCAAAT TTTCTGCTGG
GGACTGGCTT TACCCCGTCT ACCTAAATCA TTTCTTACTG CCTCCTGTAA CAGTCGCCTT TTGTGTTCTG CTGGNATTTG
TTTGAACACA GTCCACAGGT TCAGTGGTTN CATCTCT

SEQ ID NO:1964:   (Length of Sequence = 230 Nucleotides)
CAATGCAACC TTTTAATTCC AAGCAGAGTC CCCCTCCCCC AGCATGGTCA CACACACAGT GGAAAGGGAT GTCAGGGTCT
GGGCAGGAGC AATACCCAGA CCTGGGCAAA AATATAGATA TCATTATATA CACACGTGGA CTGGAAAGAA GTCAAGCTGG
GGGTGTAAGG TAGGGCAGGG GCAGGTGAGG AAAGCAGCTG GGGGGGCCCC AATAAATTAC ATTCTTGAGA

SEQ ID NO:1965:   (Length of Sequence = 299 Nucleotides)
CGCCGTGGAT CCCGAGAAGG CACAGCAGAT GCGCTTCCAG GTGCATACCC ACCTTCAAGT GATTGAGGAG AGGGTGAATC
AGAGCCTGGG CCTGCTTGAC CAGAACCCCC ACCTGGCTCA GGAGCTGCGG CCCCAAATCC AGGAACTCCT CCACTCTGAA
CACCTGGGTC CCAGTGAATT GGAAGCCCCT GCCCCTGGGG CAGCAGCGA GGACAAGGGT GGGCTGCAGC CTCCAGATTC
CAAGGATGCA GACACCCCCA TGACCCTTCC AAAAGGGTCC ACAGAACAAG ATGCTNCAT

SEQ ID NO:1966:   (Length of Sequence = 320 Nucleotides)
GTCCCTGCAC ATGCGTCTGG CAAGACGGGT CAGCTTTGTG GTCTGAAGCA GGAAAGTTTG TCTGTNCTTA GCCAGTAGCT
TGGCCCTGTT GGCGCTGGTT GTGTAAGGAG AGAGACTTTG AGCTTCAGGT CTGGATAAAT NACCCCTTGA GTGTGGCTCC
GTGTGCCCC GAGTGGCCCC CTCAAGCTGA GTTGGGGTCT TCAGTCCCC ATACTTCTTC CAGTAGATCC AACTGTACC
ACAGAGGCGG CACTGCATGT TAGGTGGGCC CCAGGCATAC CACTGAGCAG ACTGTGTGGT GTGGCAACTC TCACAAGTCA

424

SEQ ID NO:1967: (Length of Sequence = 296 Nucleotides)
GCTCTGCTGG CCGTGCAGAA GCTCATGGTG CACAACTGGG AATACCTTGG CAAGCAGCTC CAGTCCGAGC AGCCCCAGAC
CGCTGCCGCC CGAAGCTAAG CCTGCCTCTG GCCTTCCCCT CCGCCTCAAT GCAGAACCAG TAGTGGGAGC ACTGTGTTTA
GAGTTAAGAG TGAACACTGT TTGATTTTAC TTGGAATTTC CTCTGTTATA TAGCTTTTCC CAATGCTAAT TTCCAAACAA
CAACAACAAA ATAACATGTT TGCCTGTTAA GTTGTATAAA AGTAGGTGAT TCTGTA

SEQ ID NO:1968: (Length of Sequence = 311 Nucleotides)
ACCCCCTTCA CTCCCTCCCA CCAGCTCTGC AGCCAGCCTA TGGCAATTAT ATTTTAAGAG GTGTTCCCAG GACTTTTGGG
ACCTACTAAA ACAATGATGG TTATTTTAGA TGTGATGATT TATATTTATG TAGAGATATT TCTGGACCAC TCAAGCTCTT
CGATACCAAA ATCAGGAGCA TCTTGGGATT TATTAAATTA TGTAAGAAGA TAGCACAGAT ATCGGGATAT TATTGTGTGA
AAATGCTGCT TTTACTTTGA TGTGATCTCA TTGATGTACA CAACCAAGTT CCAATAAAGT GCTAGAATGT G

SEQ ID NO:1969: (Length of Sequence = 266 Nucleotides)
CAATAATAAA AAGGATTATA TTCCTGATAC ATGCAATATG GGTGAACCGT AAAAATATCA TGCTGAGCAA GAGAAGCCAA
ACACAAGAGA ACATGTTGTT ATGATTTCAC GTACATGAAA CTTTAGTAAA GACAAGTCTA ATCCATAGTG ACAGAAAGCA
AATCAGTAAC TGCTGACAGG GGCAAATGAG GNGATGATCT CAAGGGNACC TTCTGGGGTA AGACGCTGTT CTGTATCTCG
ATCGNATTGG TGGTCACACA AGTGAA

SEQ ID NO:1970: (Length of Sequence = 317 Nucleotides)
CTCGGGAGGC TGAGGCAGAA GAATGGGTTG AGGCCAGGAG GCGGAGGTTG CAGTGAGCCA AGATTGCGCC ATTGTACTCC
AGCCTGGGCC ACAAGATTGA AACTTCATCT CGGGGAAAAA AAAAATGAGC TAAATACAAG AGATGGTAAT GCAGGAAATG
AGAGAGAAAG AAGCTATAGA ATGCACCATC AGTCTTTGCT GAGAGGAGAA GCTAGGACAC TTATGCGCAT GTNCCTGTCT
GCCTTCCTTC CCGTCCCGCG GATGGTTGGA GCAGGTCTTT GTTTGCTGCA GAGCATGCCA TGTCATCCTC CTTGTCT

SEQ ID NO:1971: (Length of Sequence = 263 Nucleotides)
GTGCATACTG CTGAGGCGGC TACGCTGGCA GGGTAAGCAA AAGAAGCACC CCAGCCTAAG TTTACAGAGA ACCAGGACAT
CATTTTGAAT ATAACTTAGT TCTAATAGTC AAATGCCCAC TCAAGGTGAC AAATAGGAAC TTCAGTGGTC ACCCCTCGGA
AGCAAGCTTT CAATGTCCCC CACCTGTAGA AGGCTGAAAA ACATCCTCCA AAGATAACAG GTTCCAATCA CTGGAACCTG
TATTACTTAT TACCATTAAA TAT

SEQ ID NO:1972: (Length of Sequence = 295 Nucleotides)
GACAAAGAAA GCAGAATAAT TTTACCTGAG AAGAAACCAG GAGGCTTCTT CTTCTTCTTC TCTCTCTTTT TTTTTTTTTT
TTTTTGACTA TACAGAAGAA AACTATCAGA GTTAGGTTAG AGAGTTGGGT TTGGGGTCAG GTTGTAGCAT GTGTTATATT
ATGGGTTAAA TTGTGTCCTC CCCAAAATTA ATATGTTGAA GTCTTAACTC CCTGTACCTC AGAATGTGAC CNCATGGGGA
AATAAGGTCA TTGCAATATA ATTAGGTAAA ATAAGGTCAT ACTAGAAGAG GGTAG

SEQ ID NO:1973: (Length of Sequence = 243 Nucleotides)
AGACCGCAGT CATCCTCAGC ACTACACGCA GGCCATNTNC AAGCTGACCG CAATGCTCAT TAGCAGTAAA GATTGTNACC
CGCAGCTCCT TCATCATCTG ANCTGGGGTC CCCTCCGGAT GTTCAATGAG CATGGCATGG AGACGGCCCT GGCCTGCAGG
GAGTGGCTGC TGGCTGGCAA GGATGGAGTG GAAGTGCCGT TNATGCGGGA GATGGCAGG GCCTGGCACA TGACGGTTGN
GCA

425

SEQ ID NO:1974:   (Length of Sequence = 304 Nucleotides)
GGATGAGATG ATCGACGTCA TCGGGGTGAC CAAGGGCAAA GGCTACAAAG GGGTCACCAG TCGTTGGCAC ACCAAGAAGC
TGCCCCGCAA GACCCACCGA GGCCTGCGCA AGGTGGCCTG TATTGGGGCA TGGCATCCTG CTCGTGTAGC CTTCTCTGTG
GCACGCGCTG GGCAGAAAGG CTACCATCAC CGCACTGAGA TCAACAAGAA GATTTATAAG ATTGGCCAGG GCTACCTTAT
CAAGGACGGC AAGCTGATCA AGAACAATGC CTCCACTGAC TATGACCTAT CTGACAAGAG CATC

SEQ ID NO:1975:   (Length of Sequence = 233 Nucleotides)
CCTTCTCCAT CACCCTTGGA CCCTCTCTGA GTGGTCTCTC AAGGCACATT TATTTTCTCT GCTGCAACCT ACCAGATCTG
ACATCCACCT CCCCCAGCAC CCATGGGCCA AGGAGGCCTG GGGCAGCCAA GGGGAGTTCC AGGACCAAGC AAGCAAGAAA
CCGTTCTTTG AACACATGGT TAAGCTTCTT CCAGCATGGC CCTAATTCCC CTACCTGCCT AAGCCAGGGG AGT

SEQ ID NO:1976:   (Length of Sequence = 162 Nucleotides)
AAGTGTTACA AGCCCCAGAA TGCTGCCCGG CCTGCCCTGC TGGGCGGACT GTCTGTGTGT CTGTNTCTCT GGCGTTCCAC
CTCCAAGCCT ATACCAGCTG TGTACAGCGC CATCTCTCTG CCTTCTGTTG CCCCTCACTC ACCAAACACG TGTATTTATA
GC

SEQ ID NO:1977:   (Length of Sequence = 270 Nucleotides)
GGCTGAATTA AGAGCATCCA GAAAGCCCAG GCCCTCCATA GGCTGTGGCG GGATGATCTT CACTTTGATC TCTTTGGTGG
CATTAGGTGT TGTGTTGAGT GGCTTGTATT TCTTCTCTGC AGGGGGAGTG GCATCTCCTG GAGCAGCTAC GTTGCTCTGA
CGTTTGAGGG GGATGGGTTT AAGGTTGTAC TTGTCAGAAA CCACCACTGT GCTGGCATTC TTCTTCACAG GCACCAAGGA
TGGTGTCTCC AGCTCTAGTC CAGTGGAACG

SEQ ID NO:1978:   (Length of Sequence = 167 Nucleotides)
TTGCAGGAGT TGCTGATATT TATTCAAACG TCATCCATAC AATAAAGAAC TCTNCTTTTA AAATTCCATT TACATCAGCA
GTTAAAAAAA AGTGACAGTG GATGAAACAT GANGCTGTAA AGTGCCTTTA TGGGGAATNC AGCCACGCCT GCCTCCACTG
TGCTGGG

SEQ ID NO:1979:   (Length of Sequence = 346 Nucleotides)
CATCATAGCA ACAAAGGGCT ATGTACTATA CTCAGGAAAA CCATTTATTT GCACTGGAGG CAACTGTTCT TGAGAGAGGA
AAAGTAAATT GTCCAAGATG TAACATCTTA TAAATAGCAA AGCAAGGATG AAAATTATTA TATTTNACTA AATCAGTATG
AGAATCCTGA TTCTTCATTA TTATATCCCC AACACTCTAT CAGTTTGTTG AACAAATCAA CAAATAAGCT TGAATAAAGG
NTCCACATCT CAATTCTCCT CCACCATTCT ATATTGCCCT TCATCCCTAC ATTAAAAATGN TTATTTCTGC TTTTTTTCTT
TAACAATTTA TCCCTAAAGT AACTAG

SEQ ID NO:1980:   (Length of Sequence = 174 Nucleotides)
CACAAACTGA CAGAGGAGAC AGGAGGAATT TAATATTACA TGCTATAATG ATATTTATCT CACAGTTTAT ATTTCATTCA
TTTATATTAT TTTTTTAAAA GGTTTCTTTA TCAGCTACTA AACATCTCAG CAATTTGGTG TGCATAGCTC TAGATTAAGC
AACAAAGAAT TGTA

SEQ ID NO:1981:   (Length of Sequence = 276 Nucleotides)
TGGNTCACTC ATAAGTTTTC AGTGGTTAAT TACTACAGTT TAAGAAGACG TGTGATTTAT TTTTAGATCT GACCCAGCAG
ATCATACCTN TNCNTTGAAT TACATGGTCT TCTTTTGGCT TCTAAGATGT CACACTCCTG TCTTAGTGGC CACTGCTCCT

426

CAAGCCCCCT TTGCTAGCTC TTCCTCATCT GTCCAGCCCT AACCTGACCG TGCTATGTAA GTCTTCTCCG TNTTCACCCC
CTNCCNGGGT GACCGTTATA CTNCCAAACC TACAGG

SEQ ID NO:1982: (Length of Sequence = 288 Nucleotides)
GCTGCAGAGA GGTTGTNTCC AGGAGCAGGC TTTCCCGCTC GGGATCCAGG TCATCCCCCA CCAGAGAAAT TTCACAGCCA
TCCAGGTTGT GCACAATCTC ATCCGACATG CGTGTNTCTG TCACTGTGCC CTGCCAACTC TCATCCTTTT TGGCCTCCAC
CTGGTGAGAA ATGGAGCAGG TGATTTGAAG ATCAGGGAAC AAAGGGACGC CGTTGGTTCC CTCAAAGTCC ACAGCTNGGC
GGGCAAAATG AGCAGTGCCA CTCAGCAGGA TCTGGGGGGC GTCAGGCT

SEQ ID NO:1983: (Length of Sequence = 273 Nucleotides)
CACAAGCCAC TTTCAGCCTC CAGTGGGAAG GCTCCAGCCA CACGCCGATA TTTCGTCCTG CTTCCCGTCA TCTCATATCT
AAAAGTCATG GCTTAAGTTA GGCAATAAAA CCTGTGGCTT TAGGCATCTT TAGTAAAAAA GCTGAACAAA TCCCAAATTT
ATTCCCATTT TCTTGAGAAA TAAACTTCAT AAAACAACAG ACAGCTGTCA TGATTACTGA GTTTTGGCTG ATGGCGAAAT
AATTTTTATG TAAGTATACT GAATAAACAT ACA

SEQ ID NO:1984: (Length of Sequence = 221 Nucleotides)
GAAGAGGCTG CTCTGGCCTG GGACACCCCC ACTGCTCTCA AGGAGCTGGC ATCTCAGTGG CCTCTNAGCC CAGCCTGAGC
CCTGTGGGAG TNCGGGGGCA GTGACTGGAA TGTNCTGCTG GGCAGGCTGC AGCAGCCGAG GTGGCCCCAG GGCAGAGGAG
TGCAGCGCAN CTCATGGGTG CCCTATGCCA CCCCTGGTGC TCACTGGGCT GCTGATGCCG T

SEQ ID NO:1985: (Length of Sequence = 197 Nucleotides)
TTGCTACCAT GAGGGAAGTG CTCGTTGCTT GGCCTACAGC AAGTNATACA GCCTGCGAGG CACAGTCCCC AAAAGTCTAG
CTGCAATTCT ATTGGTGGTT TTCCCCAAAC AGCAATAACA AGATGTTACC TGGAAGCACA CCAGAGCCAA TCATGACTCA
GGCCTGTCTA GATGTTTAGA TGTCTGGAAA TATATTT

SEQ ID NO:1986: (Length of Sequence = 268 Nucleotides)
CACTTGGACA TTCCTCTTTA TTGTTCACAT TCCAACCCAG CACAGTCACA TGCACACACG GAGATCAGAA ACCTTTNGGC
CACAGCCCCA GGAGCCCGGC GGGGGGGAGG GCGGGACCGA CAGGGGCGGG GCGGGGCCGT GGAAGACTCC TCCTACCGAG
CCTCCCAGGC GNTCGGCGTT TGCATAAACA AGAGAGCTGG AGAGGNTGCC CTCAACAGTG CGCTGGGGAA AGGGGAGGGA
ACGTGACAGG CAGGTNTNGG ATAGGGAC

SEQ ID NO:1987: (Length of Sequence = 282 Nucleotides)
GTCCTCACTG TAAACAAATG AGGATGGAGG ACACTGAGAG GNTCAAATAT GAAAGGCAGT ATGGGGAGTT AGAGCCACTC
GTCTACTCCT GTAAAGAGCA TGACTACTCA CAGTCTTTCT AGCGGGTAGT CACTCTTTCA TTTAACAAAT ACTTAGTCCC
TGCAATGATC TAGGATAATA ACTCAACAGT GTATATCAAG AGCCTTTAAA AAGTTATACC TGGCCGGGCG CAGTGGCTCA
TGTATGTAAC CCTAGCACTT TGGGAGGCCA AGGCAGGCAG AT

SEQ ID NO:1988: (Length of Sequence = 226 Nucleotides)
TCAGGGGGT TCGGTCTCTC AGGAAGTTAG GCCATAATTT CTGCAGGTTC AGTGATTAAC TNGGATCCAT CCCATGCTGT
CTTGAACTGT TCAGGAATGG GAAATTCTCT ATAATCACCA TCCTGACGGA TAAGTATGTT CATTTCAGAT GACTTGGCGC
TCACGNTCTC ACAGTCTAAT GCATCTTCAC TGAGGTATAT GTGGCAACCT TCTGTCTTAT TAATGG

427

SEQ ID NO:1989: (Length of Sequence = 193 Nucleotides)
CTCCCTGTAG GTCATGTCCT TGAGAGTTAA AAGATGGGTT GAGTAGGCAG AGGTCTCAGG CACCGGGGAC AGAAGACAAG
GACATTCAGC ACGGGCAGCC ATGCTCTTCC CAGCACCCAG AAAAGGCCCA GGGCCCGGAC TCCTGGGTGT GGTCATGAGA
AGCGCCTCCG ATTCAGCCTC TTCTCTTCTT GTG

SEQ ID NO:1990: (Length of Sequence = 223 Nucleotides)
CTGCTTCATT TACCACCACC AGCCGATGGA CCAGTTTATT GGATTCACCT ATGATACCAG GACTTTTCCA TTCAATTCAA
TTCAACAAAC TTTTAGAGAT CGCCCCTATT CCAAGCTCAT CCAGGTTCTG CTTCATGAAG GCAGGCTTTG GCATATCAGA
CATAAAAAGC TGGAGGAACT TGAGGATTCT TTTGTGGGTA AGTATATAAA GTGCATTCCC ACT

SEQ ID NO:1991: (Length of Sequence = 385 Nucleotides)
GCAGAGAAAG TGCCAGGCAT CAACCCCAGT TTCGTGTTCC TGCAGCTCTA CCATTCCCCC TTCTTTGGCG ACGAGTCAAA
CAAGCCAATC CTGCTGCCCA ATGAGTCACA GTCCTTTGAG CGGTCGGTGC AGCTCCTCGA CCAGATCCCA TCATACGACA
CCCACAAGAT CGCCGTCCTG TATGTTGGAG AAGGCCAGAG CAACAGCGAG CTCGCCATCC TGTCCAATGA GCATGGCTCC
TACAGGTACA CGGAGTTCCT GACGGGCCTG GGCCGGCTCA TCGAGCTGAA GGACTNCCAG CCGGACAAGG TGTACCTGGG
AGGCCTTGAC GTNTGTNGTT AGGACGGCCA GTTCAACTAC TNCTNGCACG ATGACATCAT GGAAG

SEQ ID NO:1992: (Length of Sequence = 312 Nucleotides)
GGCTTACAGG ACAGAAAGGT CCCTTCTCAC AGTTTGGGAG GTCCGAAGTC TGAAGTGAAG CTGTCAGCAG GGCCACACCC
CCTCTGGATG CTCCAGGGGA GGGTCCTTTG CCTCTTCCAG TTCTGGTGGC TCCAGGCATT CCTTGCTTTA TGGTGGCATC
ATTCATCTCT GCTCCGTCTT CACGTGGCCT TCTCTGTGTT GTCAAATCTC CTTCTCTGTT CTCTTGTAAA AACACTCGTC
ATTGGGATTT AGGGNCCACC CCAATCTAGA TGGTCTCATC TTGAGCCTTT ACTTTAGTTA CCTCTGCAAA GA

SEQ ID NO:1993: (Length of Sequence = 429 Nucleotides)
CTGTTTTTAC TCGACGAGGA GAAGACCTTT TCATGTGTAT GGACATACAG CTCGTTGAAG CACTGTGTGG CTTCCAGAAG
CCAATATCTA CTCTTGACAA CCGAACCATC GTCATCACCT CTCATCCAGG TCAGATTGTC AAGCATGGAG ATATCAAGTG
TGTACTAAAT GAAGGCATGC CAATTTATCG TAGACCATAT GAAAAGGGTC GCCTAATCAT CGAATTTAAG GTAAACTTTC
CTGAGAATGG CTTTCTCTCT CCTGATAAAC TGTCTTTNCT GGAAAAACTC CTACCCGAGA GGAAGGAAGG GAAGAGACTN
ATGAGATGGA CCAAGTAGAA CTGGTGGGAC TTTNGATCCC AATCAGGAAA GACGGCGNCA CTNCAATGGG GGAAGCATAT
GAGGGATGAT GGACCATCAT CCCAGAGGT

SEQ ID NO:1994: (Length of Sequence = 377 Nucleotides)
TGGGGTTGCC AAACCAGTTG CCCCTGTCCT GTGTCAGCCA GCTGTGGCAA TTTCACCCTT ATTCCTTGGA GAGGCCAGCT
GCCTGCTGGA AGGAGTCAGA AGTCGGTGGA TGTCATTGAG GCCTTGGAGG CCCCAGTNTG GCGGGAGAGA AATCCACACC
TGTGCCTGGA GTTCTCCTTC CCTGACCCTC TGAACCGGCG CTTAAAAATGC TGTCCCGCCT GGAACAGGGA GGCCACATCC
AGCAGTGCGT CCTCAATGTG CTGCCCCAGC CTGTGGGAAT CCGTTTTTGT GCTTGATTTT TTGCTGGAGA TGTGGAAGGT
GATCATGCCA TCCCCCATGA AGATATAAGA AACANCATAA CCATGGTCAT CAGCAGG

SEQ ID NO:1995: (Length of Sequence = 341 Nucleotides)
GGACCTATAT GGCCATGCTC TGGCTCTACC CTTGGGAAGT CTGATCCCGG TGTGTCGCTC AGCTTGTTCA GCCCCTGGGA
TGCTGCATCT CCAGGCAACT ATGCACTTTC CCGGGGAGAG AACCAGTATG AGAAGTGGGG GCAGGGCACA CATTCATCTT
TGTACCTGCC TCTTTGGTTT GGACCTGGCC AGTCGGGTCA CTGCCTCCAC GTCTGAGGCC CCGCCAGCTG GCCGTCTGTC

428

CTCGCCAGCC TCAGGCTGCT GCGCTCTCTC GGCTTTTACG GACCTCTGAG GCCGAAACCC CACCTCGAAG TTTCCCCGTG
ACAGTGCGTC CGAGTCCACA T

SEQ ID NO:1996:   (Length of Sequence = 316 Nucleotides)
GCATATGGTT GGTGAACAGT TTTGCAGCCC TAGGCTCCTG TACTGTGCGT GCACCGCCGC CCGGGCAGCC GCTGGCTCCA
GCTCACGAAA CAGCCCCGGG CGCCGCGCCG CTCTGAGTCC AGCCTCCTAC TGAGAACAGT CCCTCCCTTG TGCGGGTCGC
ACGGCTAGCC GCAGGTTCGG CCACGTCAAA TCCATTTTNT AAAAAAGCAG GGAGCAGAGC TCTCTCTTCG CCGCCGACGC
AGAAAGGAGC TNGGGAGGAA AAAGCTGCTG CCTTTTGCGC TGGAGATTCG TGGGCAAGGC TTCTCATTTT CCCAGG

SEQ ID NO:1997:   (Length of Sequence = 320 Nucleotides)
GCAGGTTTAT GTTTTTATTT ATGTATTTTA ACTGACTTAT TTGTGTATCC CACTAGAACA ATACATTCAC AAATATACTTG
CAGAACTGTG CCTGGNGCAT CATGGGAGCA GAGAACTTGT CCAGTGAATA GTTGTTGAAG AAAGGNGTAA AATCTCCCCC
AAACCCTAAA GGCATCCTTT TCGTAGTGTG TGTCCCATAG GTATGGCTGC TGAGCACCAG GGCTGCTCAC CATGCTCCCA
AGAAGCAGAG TCAGGGAGGC AGACAGCAGG GTTTATTAAG GTGCACANCC ATGTCTGAGC CCCAGCTCTC TCCGNCTTCT

SEQ ID NO:1998:   (Length of Sequence = 395 Nucleotides)
TTTGATGCTA TGGCGCTGGA CCCAGGGCCC TCCCAGGCCA TCTCTGTTCC TCTGGGGTGG TCCAGTTCTA GAGTGGGAGA
AAGGGAGTCA GGCGCATTGG GAATCGTGGT TCCAGTCTGG TTGCAGAATC TGCACATTTG CCAAGAAATT TTCCCTGTTT
GGAAAGTTTG CCCCAGCTTT CCCGGGCACA CCACCTTTTG TCCCAAGTGT CTGCCGGTCG ACCAATCTGC CTGCCACACA
TTGACCAAGC CAGACCCGGT TCACCCAGCT CGAGGATCCC AGGTTGAAGA GTGGCCCCTT GAGGCCCTGG AAAGACCAAT
CACTGGACTT CTTCCCTTGA GAGTCAGAGG TCANCCGTGA TTCTGCCTGC AACTTATCAT TGATCTGCAG TGATT

SEQ ID NO:1999:   (Length of Sequence = 337 Nucleotides)
GAAAGTATTT GTGTGATTGA GTCACACGCT GAATCAATCT TCATATAATG CCATTTTTGC TTAAAAGAAT GCCAGACTTG
GGCATTAGGC TGACATTTTC TTGAAAACAG TGAGGCTTTG CTTTAGGGAA AATAGTGGTA GTATTTATGG TCGATGATAA
AGTTCCTAGA TTTTAAGCAA AAATTTTAGA AAGCTTGTAT CAGCTGCTGT AAGTATATAA TGAAATCTGT CATTATTTGA
TTATCTGCAT AACTGAGTCA GTATTTCCAA ATGATCAATG CATAGTATTA TAAAAATCAT ACATGGGTAA GAAATCTTTA
CAAAGTGTCA GCTAGAC

SEQ ID NO:2000:   (Length of Sequence = 329 Nucleotides)
ATGTAGCCCC CTGCTGCAAA GGTGCCATCT TTTTNCTGCT GCTCACACAG CAGCGTGCTC AGGGCCTGCC TGCATGGCAG
NNTCATCATG GGGAAGCCCA CAGCCACTGA CATCATGAAG CCCACACGGA GCATCTCCGT CACCAGGTTG GAGGGAAAGT
GCATGAGCAC GTTTGCCGGC CGTGGCCTCG GTGAAGCTGA CGTAGCCGAA AAACCCCACC ATGACGTAGG AAGGTGGTGA
CCACATTAAG GGAGGAAGCA AATATGGAGC TCATGGTTTT CACTTGACGG GCTCATCCAG GCTGTCGTAG GTGGGCAGCA
CCTGGGACT

SEQ ID NO:2001:   (Length of Sequence = 308 Nucleotides)
AAGTCTGGGG TTTGGTAGGC TCCCAGGATT TCCCTCAGCA GGCATTTGTG CTGCCGCAGG GCCGTCTGGG TGCCCCGCAG
GTCNTCCTGG ATGCTCTGTA GCCTCCGGTC GAACGACTCC CTCACTGACT GTGTGGCAAA GCTGAGCTCT GCCCTGACCC
ATGTGGCATT GGCCAGGATG GGGGCCANGC CCTGTGGGAT GCTTTGCTGC CCGINTCCTG AGGCACCGAC TGCCTCTCCT
CCCAGTGTCC CCAAGTGCTT CCTCAGAGAC TCAACTGGN TCCAGAACTC ACCATCCACT AGGACCTT

429

SEQ ID NO:2002:   (Length of Sequence = 242 Nucleotides)
AGCCAGGCCC TGGGCCCAAG CCCCTTGTCC CTTCTCCACT GCCCCTCTTT CCAGACAGTA AAGGCCATGG TCAGTGTGTT
TTTCTCTTGT AAACAAACCC CAGCTTGTTT AACAGAAATG CTAATAACCT ACTGGGAAAG ATGGAGGTCT AAATTACCTC
CAGGGTTTTT CTGGGGGTTT ATCACCAGTG TGGGTCCCTT CTGATACCAC CAGGTTCACT CCAGGCAGAG TGGGGCGGAA
GG

SEQ ID NO:2003:   (Length of Sequence = 328 Nucleotides)
ATATTCTCAC TTATAAGTGG GAGCTAAATN ATGGGAACAC ATGGACGCAT AGAAGGGNAC ACTTTTACAC TNCTGGTGGG
NGTGTAAACT AATACAACCA CTGTGGAAAA CAGTGTGGCG NTTCGTTAAA GAACTAAAAG TAGATCTCCC GNTTGATCCA
GCAATCCCAC TACTGGGTAT CTACCCNNAA GAAAATAAGT CATTATACAA AAAAGATACT TGCACACACG TTTATAGCAG
CACAATTTGC AATTGCAAAA AATATGGGGC CAACCCAAAT GCCCATCAAT CAATGAGTGG ATAAAGGAAA TGTGAGATAT
ATATATAT

SEQ ID NO:2004:   (Length of Sequence = 211 Nucleotides)
AGCCTTTTTA TTATTGTNTT TTTTTTTTTT TAANCGAAGG TCCCTTACTG GTCCTGCTTC CATGAGTAGC CGTGACCAGG
GGAAAAGGGA GAGGAACCAG CCGGCACAGG GAGGGGTCAT CTCCACAACA TTCCATTTAT ACACAGAACT AAACAGACAA
GCACAGNGTC ACTATTGCGG TTAGAAGTTG GCAGCATGGG AAGGGGGAGG A

SEQ ID NO:2005:   (Length of Sequence = 241 Nucleotides)
CCGGGACACC GTGGGGAAGG GGTGCAGGTG GGGTGATGGC CAGAGGAATG ATGGGCTTTT NTTCTGAGGG GTGTCCGAGA
GGCTGGTGTA TGCACTGCTC ACGGACCCCA TGTTGGATCT TTCTCCCTTT CTCCTCTCCT TTTTCTCTTC ACATCTCCCC
CATAGCACCC TGCCCTCATG GGACCTGCCC TCCCTCAGCC GTCAGCCATC AGCCATGGCC CTCCCAGTGC CTCCTAGCCC
C

SEQ ID NO:2006:   (Length of Sequence = 266 Nucleotides)
TTCCCCCTAA CCTTGTGAGT GGGCCTTTTA AGTAGTAAGT AGTATACACC TAGATATGGA TAGATAGCTA GGTGACCAAA
CCTAATGGAT TAAGGCCATC CTCGCCTAGG TCACTTACTA AAGATCAGGT CATATGTCAT ATCGTTCCTG TGCTTTTTAG
AACGTATTTG GGAATGGGTT CCAGATTTTT TTTAAACACA TATTAAAGAT TATTTATATT ATGCTTTGTT TCCGAAAGGT
TTTAAGGTGG ATTAAAATAT AAGATT

SEQ ID NO:2007:   (Length of Sequence = 419 Nucleotides)
AGAAAGAGGC TTCCTTCTGC GGAGGCAGGT GGAGCACAGG GAGGGCTCCT GGGAGGCACA GGAGTGGGGT GGGGGCCAGG
AAGGGGGAGG TGGACAGAGC GACTTGGATA AGGCTGGGCC GGGCCCACGC CCACCTCAAG AGGGGGGCCG CCTCCTCAGG
AGGNATCAAG GTGCAATCCA GTCTTCCTTT CTCTCCCTGA AGACCTGAGT TCCAGCCTTC ACAGAGCGTC ATGCGCATTC
TTCTTTCTGG ATGCTAACCC CAAATCCGAC ACTCAATGGT GCACCTCAGG TACCTGCCAA GGNTCTNTGG GCCCACATGG
AAGGTGCAGG GTCTGGGTCC CTGGATGACG AGGTGAGGGG CAGATGGGTG ACCAGGGAAG GGCATGACCC AGAGCTNCCG
GGACTCATGG AGGATTNGG

SEQ ID NO:2008:   (Length of Sequence = 360 Nucleotides)
CTTTTCTGGA GAAAATAATA CGCTCGTTCC TCTAATTAGC CCATCGGTTT CAGGTTCATC ACTCTGCTAT CTTCTCCTGG
AGTTTACACA AGCCCTTCAG AGTGTAAACA CCGATGTGGA TTCAATCCCA CTCATTATTT TTTTCAATAA AAAGAGAACT
GTTTCAACAG ACAGGTGTTG TTTCCGACAT CATCAGAGAG GAAGGTGGAT GGTTCTATAC GGTAAGCATT CTACCCTTCA

430

GCTGCCAGGG ACAGATCCAT AAAAANTCCAA AAAGGGAAGA GAGAAACAGC TTGAGTACAG CTGAATCATT CACAACAATA
TTACAAGCAA TTACTTCAAT GGTAAAGTCT CCAGTCTAGA

SEQ ID NO:2009:   (Length of Sequence = 411 Nucleotides)
ATTACGGGCA CCTGCCACCA CGCCTGGCTA GTTTTTGTAT TTTTAGTAGA GACGATGTTT CACCATGTTG ACCAGGCTGG
TCTCGAACTC TTGACCTCAA GTGATCCACT CGCTTCGGCC TCCCAAAGTG CTGGGATTAT AGGCGTGAGC ACCTGTGCCC
AGCCTCACAG CTGCATCTTA ACCTTACCTT TGCCTCTGCC TCTCAAGCTG GTACCTCCTA ATTTACATCC TAAGAGTGGA
ACCATGTGAC AAGGACTGGA GTGCCATTGG CTGTGGACTG TTCAGGCAGG GAAGTACAAG ACCACTCTTG TATTCAGGGG
CAACCAAAGG AGAGAATTAC GTACTTGTTG AGTACAAACT GCACCAAGCC CTGGAGACCC ATTACCACCG TTAACCCTCA
ATACAGCTCT G

SEQ ID NO:2010:   (Length of Sequence = 311 Nucleotides)
AAGAAAGATG CCAGCTCTTT ATTACCAGGG AAGCTGTGTG CACGCGCGTG GAGGGTNCCT NTGGAGCTGA CCGGGCCCTT
ACCTTCTCCT GCTTGTCAGA GGTGAGTCCT GGTACCCAGC ACGGTGGCCT CCGGGAGGCT TTGATAGGTC AGCCTTTGCT
GCCTCCCAGC TCAGGGCTCC TCCAAGGAAC CTGCGGGGCC CCATGTGCCC ACAGCCCGAG GAGGGAAGCA CCGACCGCCC
TCCTCGTGGC CAGTTGACAC ATCATCCATT TATTATCCTT CAGAGTCTAA AACTTCCTCG TGATACAACG T

SEQ ID NO:2011:   (Length of Sequence = 192 Nucleotides)
TCAGGACATT TCAGTGAGGC CACCTACAAG CAGAAAGGAG GCCCAGGGCT AGGGACAGAN TGGCCCCAGA GCCAGTCAGC
TGCAGCAATT CTTGTGAGAA AGGGAGGGCA AGCTGCCAGA GCANTGTNGC CCAATATGAT GCCTACACGA GACAGATGTC
CCCAGTAGAG TGTGTTCAGT GACCTTCTAA AC

SEQ ID NO:2012:   (Length of Sequence = 367 Nucleotides)
GGATGACCTT CGAGGACGTG TGCCGGTACT TCACGGACAT CATCAAGTGC CGCGTGATCA ACACATCCCA CCTGAGCATC
CACAAGACGT GGGAGGAGGC CCGGCTGCAT GGCGCCTGGA CGCTGCATGA GGACCGGCGA CAGAACCGCG TGGCGGCTG
CATCAACCAC AAGGACACCT TCTTCCAGAA CCCACAGTAC ATCTTCGAAG TCAAGAAGCC AGAAGATGAA GTCCTGATCT
GCATCCAGCA GCGGCCAAAG CGGTCTACGC GCCGGGAGGG CAAGGGTGAG AACCTGGNCA TTGGCTTTGA CATCTACAAG
GTGGAGGAGA ACCGCCAGTA CCGCATGCAC AGCCTTCAGC ACAAGGC

SEQ ID NO:2013:   (Length of Sequence = 213 Nucleotides)
GATTTTATGG AAAAAAATTT CCATTTTNNT TAAGAAATAA GGAGTTTNTG TGTCGAGGGC ATGACTACGA GAGGCTGGAA
GCTTCCAACA GAGAATGCTG AACGANTTCC CCCATGCCAT CGCCATGCAG CACGNCAACC AGCCCGATGA GACCATCTTC
CAGGCAGAAG CTCAGTATTT GCAGATATAT GCTGTGACTC CCATTCCAGA GAG

SEQ ID NO:2014:   (Length of Sequence = 333 Nucleotides)
GTTAAATAAA ACAGCAAATT CTTAAATACA TTATGAGTAA AGAAAGATTA AAATAAGGNA ACAGTACTTA CTGTGCAACT
TTAAATTATA CCAAGTAAAG TACACCACCT ATTCACTGAT AACATTTTCC CTACGTTGAA AACACAAAAC CTACTTATCG
ATATTTTTGA TATTAAAAAA AAGGACATTC ACTATTGTAG CCCTGACAAC TCTTCCAGTA TTTTTAACCA TTCAGATGTA
TTATGTGGGN ATATTTATTA ACATAATTTN GTTAACACA TTTCTTTCTA CACAAACTGA ATTTAAAAG TGTCTATAAC
ATTTTCAATT ACA

SEQ ID NO:2015:   (Length of Sequence = 179 Nucleotides)

431

NCACCACTTA TTGTCTTCAA ACATTATTGC ACTTTAACTT TCTTAATTTG ACAAAGCATT CAAGAAACAT CTGCAGACTA
GTTTTAACAG ACAAATAACA CCTGTAAGCA GACATGACTG TCCTAAATTG TTTATTAAGA AAGTTAAAGN GCAATAATGT
TTGAAGACAA TAAGTGGTG

SEQ ID NO:2016:   (Length of Sequence = 293 Nucleotides)
TTTTCCCTCC CCAGAGATGC TTTATTACAT GGTTTCATCA GTCATCAATG ATGGGTCCCT ATGCCCATGC GAGGAGACAG
GAACATCTGT GTGGTACATG GCACTGTTCC CCTCTCAGCT ACGCAGTCAG ATGGGGGCAG GGGGATGAAT GGGTGCTTGG
CTTCCCTGCT GTTGGGCAGG CTCTGAGATC TCAGCAGACA GAAATGAAAG CCTGGCAAAT AGGGAGGCAG GAATGTTCAA
GCATCGGTGA CCTCCATGTT CTGCAGCCTG TTTTCTAGGG TGACGTCTCT TTG

SEQ ID NO:2017:   (Length of Sequence = 504 Nucleotides)
CGCGTGCTGG CCGCGCTGTG GGCGCGCTGC TNTGCGNCCC CAGNCTCCTC GTCGCCCTGG ATATCTGTTC CAAAAACCCC
TGCCACAACG GTGGTTTATG CGAGGAGATT TCCCAAGAAG TGCGAGGAGA TGTCTTCCCC TCGTACACCT GCACGTGCCT
TAAGGGCTAC GCGGGCAACC ACTGTGAGAC GAAATGTGTC GAGCCACTGG GCATGGAGAA TGGGAACATT GCCAACTCAC
AGATCGCCGC CTCATCTGTG CGTGTGACCT TCTTNGGNTT GCAGCATTGG GTCCGGGAGC TGGCCCGCCT GAACCGCGCA
GGCATGGTCA ATGCTGGACA ACCAGCATCA ATGACGATAA CCCCTGGTTC CAGGTGAAAT TNCTNCGGAG GGATNTGGGT
AACANNTNTT GTTACGAAGG GTGCCANCCG TTTGGCCAGT ATTGGTACCT AAAGGCTTTA AAGGTGGCCT ANAGCTTAAT
TGGNAGGATN CGNTTTNTCC ATGT

SEQ ID NO:2018:   (Length of Sequence = 354 Nucleotides)
AGANCAGACC CACAGGCATG CAGAAAGGTA GGGCAGTATG TTTAANTCCA GACTTGGCAC ATGGCTAGGG ATACTGCTCA
CTAGCTGTGG AGGTCCTCAG GAGTGGAGAG AATGAGTAGG AGGGCAGAAG CTTCCATTTT TTTCCTTCCT AAGACCCTGT
TATTTGTNTT ATTTCCTGCC TTTCCGAGTC CTGCAGTGGG CTGCCCTGTA CCCTGAACCT CATGAGCCTC TAAGGGAAAG
GAGGAACAAT TAGGACGTGG CAATGAGACC TGGCAGGGCA GAGTACAAGC CCAGCACCCA GTGTCCCAGN CTTACTGGGT
CCTTANCCTG GGCCAAACAG GGAGGGCTGA TACC

SEQ ID NO:2019:   (Length of Sequence = 295 Nucleotides)
GACACAACCT TTTGAACTAT TGCTGCTGTT TTCATTTTAA AAAGGAACTT TTAATACTAA AATTATAGGA AGAACATAAT
ATCTGACGTC ACGTAAATTC AGATTTGAAG GAAATTTACT TTTTTNCCTT ATTTGTNCTT ATTTTTCCTC ATTTTGTTAA
GAACCAGCGA ACACTTTGAA GAAAGCCAAA AGTTTACATC TGGAGCTGGA GGGTTCTGTG ACTGCACACC AGGCACTCTG
CCAGCCCTAC TTCTGCCTGT AGTCCTGCAG GTCACTTGCC AGAGGTGGTA CTTTC

SEQ ID NO:2020:   (Length of Sequence = 217 Nucleotides)
ATTGGAACTT AAGTTTCACA AGGAAAGTGG TCACTTTAGT TCACCACTTT CCTTGTGAAA CTTAAGTTCC AATGGGAGAA
TGACAGTAAA CAGACAACTA TTATAATANG TCCATGGAAG ATTTTGGTGT ATGTNAGATT TNCAAATCTG TAGAGAAACN
TNGGCTCATT CAATAAAAAT TTTGAAACCA TTGATTAATG TCTTAATAAC TATATGT

SEQ ID NO:2021:   (Length of Sequence = 380 Nucleotides)
TTTTTTCTTA AAACAACAGC AACGTGATCT TGGCTGTCTG TCATGNGNTG AAGTCCATGG TTGGGTCTTG TGAAGTCTGA
GGTTTAACAG TTTGTTGTCC TGGNGGGATT TTCTTACAGC GAACATTGA CTTCTTCCAA GTCCCAGAAC CCTGAGAATC
GGCAAGAAGG ATCAGGTCAG CCACTCCCTG GAGACACAGC CTTCTGGCTG GGGACTGACT TGGCCATGTT CTCAGCTGAG

432

CCACGCGGCT NGTAGTGCAG CCTTCTGTGA CCCCGCTNTG GTAAGTCCAG CCTTTCCAGG GCTGCTGAGG GCTGCCTCTT
GACAGTGCAG TCTTATCGAG ACCCAACGGC TCAATCTGCT CATCCNTAAA GTGGGGATA

SEQ ID NO:2022:   (Length of Sequence = 223 Nucleotides)
GGTCACACAG CTAGTTGGTA GAGGAGCTCT TCCATAAGAT AGCAAGGCCA CATCACCTGC AGGGCAGTGC CTGCNCTGGG
AGGTGGCACA ATGTGCCAAG TGATGACGAT GACAATAACT ATGAAAGGAT TTTATATTTG CACAGCATTT GGTTGCCTGA
TCTTCGATGA GGAAGAGCTC CTGCCGATGT CTGCTGAATT GTGCAGTAAA ATATTCAGGA TGG

SEQ ID NO:2023:   (Length of Sequence = 294 Nucleotides)
TATTCTTAAG TTTGCACTTT ACAAAACCAC AAGGGAGAAG TCCTTGAAGG GGAGACAGGG GTAGGGGATT AGGGAGTGGG
GGATGGTAAA GAGGGGAAGA GGAAGACCCA GAAACGAAGT CCCCTCCAAC CCCATCTCGG GGACCAAGCA GAGACTAGGC
CTCAGGCTAG CCCAGCAGGG TTCCTGTGTC CTGGTTGTAC AGAGCTAGGC CAAAAGACCT CAGGGGAAGG GCCATGGCCC
TCTAGAGACT GCCGCCATTT GAGGGACAGC CACAGGCCAA TGTTTCCTGT GCCC

SEQ ID NO:2024:   (Length of Sequence = 234 Nucleotides)
ATTTTGTCGC GGTTGCAAAC GTCTTCCTGC CTTGAGCTGG GAGCTTCACC AGGCTTCGGT GTAGCGGACG TCCACTTCCT
TCAAATTGGG AAGCTTGGCC TTCAGATCTT CGTAGGTGTC AGCTGAGAGC TTNGTGCTGT TCATGTTTAA ACTGCAGAGA
CTCTTCATGG AGCTCAGGGC CAGCAGGCCA GCGTCTGTAA CCGGGGTCTC GCACAGGTTC AGCACCTGGA GCAT

SEQ ID NO:2025:   (Length of Sequence = 327 Nucleotides)
AGGAACAAAT GTTAAAGGGT AAGATAATTT CCCTGCAAAA GGACACAGAA GGCAGTCTTA AGAAGATGAA TGGATGAGAG
AAGGGAGAGA ATAAAATGCA ATAACGAGCC AGCATTTACT ATGTATTTNN TCCTCACCTG TCTCTCCATA TTTAGGTCAC
TTACCAGTTT CTGTGCCCTT TTGGAGCTTT TNTTGAGGGC TTCATTCTCA CCCTGTATTT CTTTAGCCCT AAATTGACAC
TCTCTCCAAA AATCCATTCC ATTGTCTGTG GACCNAGATG TTCTATGTAA TTCAGAAGCA GAACTCTTGG CTAAAGGGCT
AGTGTGG

SEQ ID NO:2026:   (Length of Sequence = 328 Nucleotides)
TCAGTATAAA TTTAAAAGAA ACAGCTTAAT GAAATACAAG TCAGTTTATT TGATATTCAG CCTACAGCTT TCCAAAGCAG
CAGTTGAACA TGTTGTTGAG TTTATACCAT TCATTCATTC ATTTATTTTT NCTTTCTTTC TTTCAGAAAA TACTGGGTGT
TTGATATTTG TTTCACTGTG CTAGTTTCTG GGAATGTGTA AGGAAGAGGC TGGCTGTGTG GATGAGAGCA ACTTGCTTTT
TACAATAATT ATTTGTTATT GTAAATTAAC AATTTGCTCT TCTGGTATTA TATGGAAGTA TTTGATCCNG TTGATGGCAC
TGCCTTTG

SEQ ID NO:2027:   (Length of Sequence = 307 Nucleotides)
AAGAAAGATG CCAGCTCTTT ATTACCAGGG AAGCTGTGTG CACGCGCGTG GAGGGTNCCN TTGGAGCTGA CCGGGCCCTT
ACCTTCTCCT GCTTGTCAGA GGTGAGTCCT GGTACCCAGC ACGGTGGCCT CCGGGAGGCT TTGATAGGTC AGCCTTTGCT
GCCTCCCAGC TCAGGGCTCC TCCAAGGAAC CTGCGGGGCC CCATGTGCCC ACAGCCCGAG GAGGGAAGCA CCGACCGNCC
TCCTCGTGGC CAGTTGACAC ATCATCCATT TATTATCCTT CAGAGTCTAA AACTTTCCTC GTGATAC

SEQ ID NO:2028:   (Length of Sequence = 272 Nucleotides)
ATCCATTTCT GCATTAACCT AGAGTTAAAA AGGAATATTG TTTATTGTTT GGCTCTCCCC ACTAGAAGTT TCACAGGNGC
ACAGATCATA TCTACCATTT GAACAGCTCT CTGCCTGATG GCTAATACAT TTNTTGGCAT ATAGTAGGTA GGTGCTCAAT

AAATTINTTA CAGGAATAAA TGAGATAGGA TTTTCAAGGG TATTTNCTAT TAGGATTTAA TAAAACAAAG TGATCTTTAG
AGAAACAAAT CTCCCCATCA ACATGCTATA CT

SEQ ID NO:2029: (Length of Sequence = 261 Nucleotides)
ATTTCTACTA AAANTACAAA AAATTAGCCA GGCGTGGTGG TTGTGCACCT ATAATCCCAA CTACTCGGGA GGCTGAAGCA
GGACAATTGC TTGAACCCAG GAGGTGGAGG CTGCAGTGGG CTGAGATCGC ACCATTGCAC TCCACCTTGG GCAACAAGAG
GGAAACTCCG TCTCAAAAAA ACAAAACAAA ACAAAACAAA AACAAAAGTC AAGTGCTTAC ATTTTGCCAG AAGCCACAAA
TGAAGACTGT GCCTTATAGG C

SEQ ID NO:2030: (Length of Sequence = 384 Nucleotides)
NNCCNNGGAC CAACAGCAGC CAGAGCAGTT AGCCAGTTAG TCCCCAGGCC TGTGGCACAG GCGTTTCTGA CCTGCTGGGC
CGAGAATGGG TAAGTTGTCT GGAGTCAGGT GGGCCCACGT AGGACAGGGT CACAAAGCCT GGGTTTGTTT CTGGGTACTT
TGCGCCTCTG GGGTGCTAGA GGTGGGGCAT GGTGGCTGGA AGTAAAACTG CCAACTCTGG CCCTCAGAAC TCTCAGGTAT
AGAAGCCCAA GATGTCTAAT ACCCTNTCCC AGTGCCCGAG AGCTGCCTGG TGTCAGGTAG AGAGGACACT GTACCTGGGT
GAATGATCAG ACCCTGGTAG CTAAGAAGGN ACTTGTCCCT TTAGTCAGTT TGCAGANCCC CTTT

SEQ ID NO:2031: (Length of Sequence = 261 Nucleotides)
ATCACAGAGG AGAAGCCACT GTTGCCAGGA CAGACGCCTG AGGCGGCCAA GGAGGCTGAG TTAGCTGCCC GANTCCTCCT
GGACCAGGGA CAGACTCACT CTGTGGAGAC ACCATACGGC TCTNTCACTT TCACTGTCTA TGGCACCCCC AAACCCAAAC
GCCCAGCGAT CCTTACCTAC CACGATGTGG GACTCAACTA TAAATCTTGC TTCCAGCCAC TGTTTCAGTT CGAGGACATG
CAGGAAATCA TTCAGAACTT T

SEQ ID NO:2032: (Length of Sequence = 344 Nucleotides)
CCCCTGCACG GCGTCTGGTT CTTCGGGGAA AACGCTCACC CACCCCTGGT AAAGGGCCTG CAGATCGAGC ATCCCGGGCC
CCACCTCGAC CACGCAGCAC CACAAGCCAG GTCACCCCAG CAGAGGAAAA GGATGGACAC AGCCCCATGT CCAAAGGCCT
AGTCAATGGA CTCAAGGCAG GACCAATGGC CTTGAGTTCC AAGGGCAGCT CTGGTGCCCC TGTATATGTG GNTCTCGCCT
ACATCCCGAA TCATTGCAGT GGCAAGACTG CTGACCTTGA CTTCTTCCGT CGAGTGCGTG CATCCTACTA TGTGGTCAGT
GGGAATGACC CTGCCAATGG CGAG

SEQ ID NO:2033: (Length of Sequence = 373 Nucleotides)
GGAAGAAAGA AAGAAAGAAA GAAAGAAAGA AAGAAAATGG CCCCATAGTG CTTAAGTCCT CAGACATGTG TCCTGGTGCT
GGGGACAGGG CTTCTGACAT TCTCTCAGGT CAGTATTTGC AGGTCATCCA CCTTCGACTT CAACACATGT GACCAGAAAC
CTTCCCAAGG CAGCCATCCA CTTTGCTGTC CCTCCGACGG CCATGGCTGA CCACTGCTGC TGCTGTGTAT CCTCGGTGAC
ATCTGGCCTT GGCAGCCTAT GGATTTNTGC CATTCTCCTG GCATGAAATC ACTCCTTCTT GTTGTTTTAA TTTGCATTTC
TTCAGTTACC AGCGCAGTTG AGCATCTTTT CATACACTTA CTGACCATTT CTA

SEQ ID NO:2034: (Length of Sequence = 289 Nucleotides)
CCACCAAAGA ACATCACGCT GTCTTATGTC AAATGCTCGA CAATACCTCT CAGTAGGACG TTGTTGCAAG GCTAGCTAAT
TTTAAATCTG GTATGAGTAA TACAGTCAAA CCTAGTTAGT ATGCGAGAAA GTCGTTGCTA ACGCATGGTG AGAGGATGTG
ACGTCACAGC ATGAGCAGTC CCTGGTTGTC CCATTGTCAG ATAAACGTNC TNNNGTNCNN CCAAGTTTCT NNTCCNGGTC
TCTGAACCCC AAAGCCAGGC CTTTCACTTT TGCTGGGTGG CCTGGAAGC

434

SEQ ID NO:2035:   (Length of Sequence = 290 Nucleotides)
CTTTTCCTTC ATCTGAACAC AGAAGGAGCC ACGGTCTGGA AAGTNTGCCT GTCCTTCCCG GGAGTGGGGA GGCCGGTGTG
AGTTTTGATC TTCCAGCTCA GGCAGACACC TTACACAGTG CAAACAAGAG CCGTGTCAAG ATGAGAGGGA AGCGTAGACC
GCAGACCCGT GCAGCTAGGC GGCTGGCTGC TCAGGAGTCC AGCGAGGCTG AGGACATGAG CGTCCCCAGA GGACCCATTT
GCACANTGGG CTGATGGCGC CATTTCCCCA AATNGCCATC GGCACCAGCT

SEQ ID NO:2036:   (Length of Sequence = 241 Nucleotides)
TTATTTTATA TAAAAAGTGT TTCTGTGATT CTCCAGAGCC CAGGAGTCAG TNCTGGTGGT TGGAGGGACC TGCCCCCACT
GGTTCATTTA ACCCTCTGTC TCGGTGCCCT NAGAACCTCA GCCAGAAAGG CAAGGAGGAA ATCAGAGCAN GAGCCTCATA
CTCTTGGTGA TCTATTCATT CTNTGACCTC AGGGGTCACA TATAAGGTCA GTGTTTCTCG TCCCCGNCGG ATCTGCACTG
C

SEQ ID NO:2037:   (Length of Sequence = 270 Nucleotides)
CTATTATTTT GCATTTTTGG TAGAAGGGGT GGTCTCACCA TGTCGCCCAG GCCGGTCTCG AACTCCTGAG CTCAAGCGGT
CCACCTGCCT CAGCCTCCCA AAGTGCTGCG ATTACAGGCT TGAGCCACTG CACCCTGCCC AACCTTGACT ACTTCTAATA
GGGATGAGTC GAGTAGCAGT TNGGGGCGTC CTGTGCGGCT GGGTCTGCCT GAGGCTCCCC TCGGCCCCGT CCATGGCTTG
TTGTGCATCT GGCCCTGAGT GCCTTGGCCC

SEQ ID NO:2038:   (Length of Sequence = 151 Nucleotides)
ATTTTAAATT GAGCATTAAG GGAATGCAGC ATTTAAATCA GAACTCTGCC AATGCTTTTN TCTAGAGGCG TGTTGCCATT
TTTTTNTTAT ATGAAATTNC TGTCCCAAGA AAGGCAGGAT TACATCTTTT TTTTTTTTTT TAGCAGTTTG G

SEQ ID NO:2039:   (Length of Sequence = 166 Nucleotides)
TTTGTCTGTT ACAACCTCCG TATGACGCCA CGCCACCCGC TGTTCACGTC CCGTCGGCCT CCTGCACAGN CCACACGCTG
CGCCCGGAAG GCCCCTGCTG TGGAGAAGCC GGACCCATCC CCGAGGTCCC CAGCGAGGAC ACANACTCCA CGAGAGCAGC
CCCTCC

SEQ ID NO:2040:   (Length of Sequence = 362 Nucleotides)
GAAGTACGGT TAAAATTAGA TTTGACCATA TGGAAGATCT TTTACCAGTT GGTCTCCAAG AATGTCTTCC TTATTATGTT
ATTGGTCATT TTTGAGCGTG TGTGTTGGTG GGGTGGTTTC TGCCTTATAT TCCTTAACTA CATTGTATAT TTTTGTAAGG
AATTGGGAAT TCATTTTAAT GCTTTTTAAC ATCTTCACTG GGAACTGGAA TAAAGTTATT CTTGACTCTG TACCTTGAGC
CATTGTCAAA GTCAGGGGTT ACATTTTAGG TATCTAAAAA TTACTCTTTA ACTTTCACAT TCCCTGGGTT AGGAAGCTGC
TGTTCAGGAG AAATTTTCCN GGTTCTTCTG GCAATTGGCT TA

SEQ ID NO:2041:   (Length of Sequence = 360 Nucleotides)
CCTAATTGTA AGTNATGAAG TCGAGGAGGT GCGTGATAAT GGGCCAAGTG AGGATGCAAT GCACCAGGTG TATAAGTAGC
TGCAGTCACT CCAGCTTCAA TTCCCAGTTC CCAGGCAGAC CTCTCTGGAG CCTGTCGAGG ATGTNAGGAC ATAGTCTGAG
GCACATGAAT ATGATGCCCA TGACCATAGT TTGGGTGCAT CCTATGTGGA TGGGGTGGGG GGCGTTCATG TGCCCGCNTT
GGANGCTGCA TCATCCTCCT CCTTTGAACT TCCATCCTCT GCATCACTTC ATGAGGATGC AGTNTNNGNN CTGGAGGTGC
TGTGGCTGGA ATATGGTGCG AAATTGGCTG GTGTGTAGGA

SEQ ID NO:2042:   (Length of Sequence = 403 Nucleotides)

435

GTTATTGTTG TTTGAGATGG AGTTTCACTT TTNTTGCCCA GGCTGGAGTG CAGTAGCATG ATCTCAGCTC ACTGCAACCT
CTGCCTCCCG GGCCCAAGCG ATTCTCCTCC CTCAGCCTCC TGAATAGCTG GGACTACAGG TGCCCAACAG CACACCCGGC
CAATTGTTGT ATTTCTAGTA GAGATGGGGC TTCTTCACGT TGGCCAGGCT GGTCTCGAAC TCCTGACCCC AGGCGATTCC
CCCACCTCAG CCTCCAAAAG CGCTAGGACC ACAGGCGTGA ACCACTGCGC CCAGTCGGAA GTAATAGTTA TTAACCAATG
TGATGGCCGG GTGTAGGGAC CCTCGCCTGT AATCCCAGCA CTTTGGGAGG CCAAGGAGGG AGGACCGCCC GNGACCAAGA
GTT

<u>SEQ ID NO:2043:</u>   (Length of Sequence = 331 Nucleotides)
CCCCGTACGG TGTGGCTCTC AGCAGCCTCA CCACAGGCAC CGCAGCTTTC CGCTGTGTGCA CCCAGCTGGG TGTGTGAATC
CCCCTGGACT GCGCCCAGGC CACCTTCATC TCCCATGACA AGATGGTCAT CTCCCTCAAG GGCAGTCAGA TCTACATGCT
GACCCTCATC ACCGATGGCA TGCGTAGGTT CCGAGTGTTC CACTTTTGAC AAGGCGGCCA CCAGCGTCCT CACCACCAGC
ATGGTCACCA TGGAGCCTGG GTACCTGTTC CTGAGTTCTT GCCTGGGCAA NTCTCTCCTC CTCAAGTACA CCGAGAAGCT
TCAGGAGCCC C

<u>SEQ ID NO:2044:</u>   (Length of Sequence = 244 Nucleotides)
ATGGAAGATA CTAAGAGCCT CAGTCTGGAA GCATTTACCT AGGAAGCGCA TATAGACAGA GAAGATCAAG GACTGAGGCC
TGAGACAGTC AGCACTTAAA GGGTGAGGGG AGAAGTGCCA AGGAGACAAG GTGAGAACAG CAGAAGAGTA GCCAAGGCCC
AGGATGTTGC CACAGAAGCC AGGAGAGGTG AGCATGAAAA CAGAGGAGGA CCAGCTGCTG GGACAGAAGA GCCATATGGA
AGAG

<u>SEQ ID NO:2045:</u>   (Length of Sequence = 333 Nucleotides)
GTCAGGGATT TGTCCATTCT GCTCTTGGCC TCTCCTGAGG CCTCATAATG GGAGACCAAA TCAAAAATGT CCCATGTCAC
TTGAGTGGGT ACACTGCCTA CAGAACCTTG AGGTTGACTC CTGCTTCAGT TCTCAGCTGT TTACCACAGC CCTCCAGGGT
CCAAAGATTG AGGAGCTTTC TCTTTCCTGG GAGGAACTGT CTCANATTTA GCTTGTGTGT GTTTTGGACA GAGGCTCCAC
AGCGGTGGCT CTTGAGGAAT CCTCACCAGT TTGTNCTCTT CCCTCTGACA AGCAGCACCT GAGCAGATGC TGAGGCAGTT
CATTAAACCA GGG

<u>SEQ ID NO:2046:</u>   (Length of Sequence = 274 Nucleotides)
GCAGGTTTAT GTTTTTATTT ATGTATTTNA ACTGACTTAT TTGTGTATCC CACTAGAACA ATACATTCAC AATATACTTG
CAGAACTGTG CCTGGNGCAT CATGGGAGCA GAGAACTTGT CCAGTGAATA GTTGTTGAAG AAAGGAGTAA AATCTCCCCC
AAACCCTAAA GGCATCCTTT TCGTAGTGTG TGTCCCATAG GTATGGCTGC TGAGCACCAG GGCTGCTCAC CATGCTCCCA
AGAAGCAGAG TCAGGGAGGC AGACAGCAGG GTTT

<u>SEQ ID NO:2047:</u>   (Length of Sequence = 327 Nucleotides)
GGCCGCGATG TGCTTTTNTC CTGTNTTCGC TGCCCGGGAT GCGGAATCTT GAGCCTCGGT GTCGGGTTAC AGAGTTGTCC
TGGTGACGGG ATGCGGAGGT TTCCTCCTTT TTGTTGTGGG GGCGGCTGGT GGCAGGGGCA GCTGGTGGCA GGGTTGCCCA
CGCTAATCTC CGAGTCTCTA AGGGCACCGT CTTTCCTGGA TCCCTCTTGC GCCTCGTCCA TAAAGGCAGA CCCGCGGGCG
CGCGCCGGCA ACCTGAAATC AGAGCAGGCG TCCGTGGCGC TCAGGAACCT TGCTGAGCTT CGCCGATCTT TCATTGTTGC
TTCATTT

<u>SEQ ID NO:2048:</u>   (Length of Sequence = 241 Nucleotides)

436

ACTTTGTTGT TCTGATTTTA GGACTCTGGC TGGCCATGTG CTTNNGGTTG CCTCTCCTGC ATTTNCCACT GGATTTNCAC
TGCATCGTTT GGAGATACAA AGCGAGCAGT TCTTGGTCAG AACCCTCCTC TGCTTTTCAT TGTGTTTGAT AATGGTTACT
GGGTCCTTCT CTCAAGGGTA GCAAGGCCAA GCTGATGGCT GCTTGTTTAG GAGGCCATCA GTTCCTTCCT GTGGAGAAGG
G

SEQ ID NO:2049: (Length of Sequence = 269 Nucleotides)
ATTTTTAGTA GAGACAGGGT TTCACCATGT TGGCCAGGCT GGTCTCAAAC TCCTGGCCTC AAGTGAGCCA CCTGCTTTGG
CCTCCCAAAG TGTTGAGATT ACAGGTGAGA TATTCTATAT TCATGGATTG AAAGACTCAA TATTGTTAAG ATGTCAGTNC
TTTCTAAAGN GATTTTTTAG ATGCAACACA ATTCCAATCA AAATCCCAGG NTTTTTTTGT AGCTATCAAT TGATAGATAT
CAACAGCCAG CTGATTCTCA AATTTACGT

SEQ ID NO:2050: (Length of Sequence = 170 Nucleotides)
TTTTGAAGAG AACGTCAGTT TAATAAAGCT AAATGGGGAG AATTGAAGTT TGCATTTGAC ATGGTATTAA ACAAAACCAA
AGGGCTGAAA CTCATGTTTA GACAACACAG GTCACTAGTC ACTAGGCAAA GAAAACAGTC CACAGCAGGT GGCACAAATA
ATTCCTATAC

SEQ ID NO:2051: (Length of Sequence = 262 Nucleotides)
CAGGGCACAC GCAGGACCAC TGTGGATTAG AAACCCACAC GTGTCACTCG CAACATTCCT CCCACATCCA CATCCACGAC
GGAGCCAAAT CTCATTTGTC ACCCTCAGTC ACCACCCCAC AAGATGGAGC CGCTGGTTAC GACATGGATG ACAGGTGTCA
TGCACAGGGA GAGAATTTNT CCCCGGATAC CCCTGAGGAC CAAGGACCAC CCCCAGGCTA GGGTGGGAGG ATTGAGAGCA
GTGCAAGAAA CCAAGGAGGA TN

SEQ ID NO:2052: (Length of Sequence = 325 Nucleotides)
GAAAAAAGAT TGTTTTGTTA GAAAAAGCAA AAACAAAAAA GCATTAGAAA GTGGGAGCCA CTGCACAGCA GTAGCCTAGA
GACTGGCTGC GATATGGTAG CTCTGCCTTG ATATCATCTT CGTGTCTTCA GGCATAGAGA AATGGCAGAG GAGCAGTAAG
ACCCCACAGG AGATGGCCAG AGGNTCCACC ATCAGCCTTC TGGGGACTGA GGAGGTGATC TTAGTGGAAT TATTTTATAC
TCACCTCCCC CGGGGTTTAG TCCTTCCTCC AAACACTTAG TTCCAGGGCG CAGGAGACCT GTTACTAGCA CTGTATGTTT
CTTTG

SEQ ID NO:2053: (Length of Sequence = 222 Nucleotides)
TTTCAAAATT AGTCTTAAGA GTATAAGCTG TTTTTNAGGG CTGTAGCCAG ACTACATAAT GAGCGGTGAA AGCGGCTGCC
TTCCCCTCTC CTGACACCAG CAAGGGGGAG GCACCATCAC CGGCCCTGCC CCATCATGCA TCCAATGATT ACTAGCACTA
GANGCCAACG GCAAAGGNCC CCGCGCGCTT GCTCGTGTTT AATCCAGGTT AAGCTATACA CG

SEQ ID NO:2054: (Length of Sequence = 341 Nucleotides)
GTAAATTAAG AATATGGCCC CAGAGTTTTG TTTATCTGGG GTCTGAGCAT AGATTTTATA TTCTCTGTTG CGTTTTTTAA
ATCTAACTTT CTGTCTCCAA TGGAGAGAGA ACAGGGAGGA TACAGAAGTA TTGCAGCCCA GATCCCCTAT CAGGGGGACA
GCTGGTGGGC AAAGCAGCCA CCCCACAGCC TTGTGGCTAG AGTACAGTGG GGTGGACCCT CCAGCCCCAA TAGCCCTAGT
ACCCAGCTGG CAGGGTTGCC CACCCCTGCT GTCCACCTGC TCCATCCTCT AGGGGTTCCA CAGGCCCCTG ACCGCACAGG
GAGGCTGGGG CCAGCCTGGT C

SEQ ID NO:2055: (Length of Sequence = 258 Nucleotides)

CTGCCTCAGC CTCCCAAGTA GCTGGCATTA CAGGCGCCCA CCACCACACC TGGCTAATTT TTGTATTTTT AGTAGAGACG
AGGTTTCACT ATGTTGGCCA GGCTGGTCTT GAATTTCTGA CCTTGTGATC CGCCTGCCTC GGCCTCCCAA AGTGTTGGGG
ATTACAGGCG TGAGCACCAC GCCCGGCCAA CTTGCTTTTC TCTAATGGCT GGCGATGTTA ATTTTTTCAC TGGCTTATTT
ACCGTCTCCT TCTGTGGA

SEQ ID NO:2056: (Length of Sequence = 292 Nucleotides)
CTCTTGACTC CGAAGGCTGG TGACAGACAC ATAAGGCAGC TCAAACTCTT GCAACTTCCG TACAAAAGAA AAGGCTCCAT
CCTCTTTTTC TCGAACTAAG AATAGACTAA AGTATCCAAT CAAGTCATCT GGAAGATCCA GCTTTGCAGC TACAGCCTCC
AGGACATCCT CAGTCTGATC TGAAGTTAGC ACGTTGACCA GAACTTTCTG CCCGTTGCTG AGCAGCACTT CCAAGGACAC
TTCCTCTGTG GGGACCTGCT GTGTCTCCTG TTGTGCCCGA CGCAGGAAAC TG

SEQ ID NO:2057: (Length of Sequence = 293 Nucleotides)
CCAAAAAACT TGGGTGCCTG AAGGTGGGGT TTTGATCATG GCCAGGCTTC AAATTTAGGT CAGGCTCTGG TGGTACATCC
TTATATGCTT GGTGCTCAGC ACAGGTCAAG ACACACAATA GACCCTCAAT AAATATTTGC TGAATTTGAA CAATTCCTGT
AAAAATCTCA TTAAGAGACA TCAGCTTGGG ACACAGTTCC TCTCTTACTG TTCCTTCTCC CAGAAGCTCC TGGAATGAGC
AGGTCTGGCG GCAGGGGGCA CACAGGGCTG CTGCTCAAAT CGGAGAATGG CAC

SEQ ID NO:2058: (Length of Sequence = 172 Nucleotides)
CTTCTACAGT CAAGGAGCTC AAGCTCGCCG GGCGACCCTG CTCCTGCCTC CCACATTAAT GGCGGCATCC TCGGAGGATG
ATATAGACCG GCGGCCCATC CGGAGAGTGC GCTCCAAGAG CGACANGCCG TACCTCGCAG AGGCCAGGTT CTCCTTTAAC
CTGGGGGCAG CT

SEQ ID NO:2059: (Length of Sequence = 245 Nucleotides)
GCAAGANGGC CGAGGGGGCC CAGAACCAGG GCAAGAAGGC CGAGGGTGCT CAGAACCAGG GCAAAAAAGT AGAAGGGGCC
CAGAACCAGG GCAAGANGGC TNAGGGGGCC CAGAACCAGG GCAAGANGGC CGAGGGGTCT CAGAACCAGG GCAAAAAGGC
CGNGGGAGCC CAGAACCAGG GCCAAAAAGG AGAGGGAGCC CAGANTCAGG GTAAAANGAC AGAAGGGGCT CAGGGCAAAA
AGGCA

SEQ ID NO:2060: (Length of Sequence = 318 Nucleotides)
ATGCCCTGTT AAGGAGCTTG GGCTTGATCC TCTAGGCAGG GAGCCGTTGG AGGATTTAAG CCAGGGAGTG CTGCGGTTGG
TCACACTCGC CATTTATGTA GATCGTTTTG GCAGCCAGGG GAAGGATGGA TTTNAGGGGG ATGAGATTAG AAAGCTGGGA
TATGAGTTAG GAGGCTGAAA GATGGTTGAT AAAAATNATC GTTGGGCAGC CGAGATAACT GACTTCAAGG ACATATACTG
GACTTATAGC AGAGCCTGTT GAGTCTTGCT TTTGCACACA GTTCAAATAA TCACTTAGTC ATGTGGTTTA TCTTGCCA

SEQ ID NO:2061: (Length of Sequence = 331 Nucleotides)
AAAAATAAAA ATCTATAAAC TACGGATCAT AAGCAACTCC TGTTTCTGTG GGTTTCACCA CATTCTCCAG AAACTGAACT
TTTGCTCATA AAAATTACAT AGAATGTAAA CTAATTCATT TTTTAAAGTA AATGCAAAAC TAAGGGTTAC ACAAGCACTG
AGCATCAACA CTGACAGAAT ATTAATTCTG AAGCCCATTA ACTTTGACAA ACGTTTATTC ATCTTTGCCT TCTTGAAGCG
TGTGACTATC CCAGTTTTAC AGGAAAAGCT TAAACAGAAA AAGTTAAATA ATAATCTCAA GGTTAGNAAA CTAAGACATA
ATTTCTAGCT C

SEQ ID NO:2062: (Length of Sequence = 316 Nucleotides)

438

CTAAAATCAA CCACATAATT GGACATAAAA GAATCTTCAG CAAATACAAA AGAACCAAAA TCATAACAAA CACACTCTAG
GGCCACTGCA CAATAAAAAT ACAAGTCAAG ACTAAGAAGA TCACTCAAAA CAATGCAATT ACATGGAAAT TAAGCAACAT
ACTCTCAAAA TGACTTTTGG GTAAATAATA AAATTAAGGC AGAAATAAAG AAGCTCTTTG AAACTAATGA GAAGAAAGAT
ACAACGTATC AGAAACTCTG GGGTACAGCT AAGGCAGTGA TAAGAGGAAA ATTCTTAGCA CTAAATGCTC ACATTG

SEQ ID NO:2063:   (Length of Sequence = 312 Nucleotides)
ATCCATGGCT TTAGCAAGAT CCCAGTGTCG GAACTCTCCT AGCAACTTGT NTTCATCCAG TGATACTGGT TCTNTGGGGG
GCACTTACAG GCAGAAGTCC ATGCCCGAAG TGTTGGAGTG AGCCGTAGAT CCCCAGCCTC CACTGACAGG CAGAACACCC
AGTCAGATAT TGGTGGCAGC GGAAAATCCA CGCCTAGCTG CAAAGAAGT GAGGATAGCA TTGCTGACCA GATGGCTTAC
AGTTATAGAG GACCTCAGGA TTTCAATTCT TTTGTCCTCG AGCAGCATGA ATATACAGAG CCAACATGCC AT

SEQ ID NO:2064:   (Length of Sequence = 294 Nucleotides)
TACCTAAAGA ATCCTCAGAT GGGAGACCCA GCCAGTTTGG NTCACAAATT AGCAGAAGTC AGCCAAAATA TAGAGAAACT
GCGAGTAGAG ACCCAGAAAT TTGAGGCCTG GCTGGCTGAG GTTGAAGGCC GGCTCCCAGC ACGCAGCGAG CAGGCGCGCC
GGCAGAGCGG ACTGTACGAC AGCCAGAACC CACCCACAGT CAACAACTNC GNCCAGGACC GTGAGAGCCC AGATGGCAGT
TACACAGAGG AGCAGAGTCA GGAGAGTNAG ATGAAGGTGC TGGCCACGGA TTTT

SEQ ID NO:2065:   (Length of Sequence = 331 Nucleotides)
GAGCTGAGTT TCACCGTGTT GCCCAGGCTG GTCTCGAACT CCCGGTCTCA AGTGATCCTC CTACCTCAGC CTCCCAAAGC
ACTGGGATTA CAGGTGTAAA TCACTGTGCC CAACCTGCTC AAACTCTTGG AGAGAAGCAA GTCTTCTAGC TGAACGTGAT
AATGGCCTCA AAAGCAGTGT TGACAGCAGA TAATCTTCAC ACAGACAAAT GTCTACAGTT TCTAAATAAG CCAACTGTGC
ATATGGCCTA CAGGCTCTTC AGCATAACCT ACCCAAAGCT CAGGTTCCCT GAAGGCCAGG ACAGTACCTC GGGCCTTCAA
GCAGCATTTG G

SEQ ID NO:2066:   (Length of Sequence = 321 Nucleotides)
GTCTTGANCT CCTGACCTCA GGTGATCCAC CANCCTCGGC CTCCCAAAGT GCTGGGATTA CAGGCGTGAG CAACCGCACC
TGGCCTTGAA CCCTTTGAAG TATTGATGCA AAAACAAGTG GTCAGCTATG GCCAAATTCG CAATTCAAAA AGATCCAAGA
AAGCAAGTTG AACATCCTGA TTGGAGATGG GACACACCCA AACGTGTGTC TTGAGGTGGC TGCAAAGTCC TCCGGTCTGA
GCCAGTNTAA GCAGGTTTTA CCCCAGCCCA TGATTTAGAG AGATGTTNAG TGCAGATCCT GAGCTCAGCA GAGAGCAACA
T

SEQ ID NO:2067:   (Length of Sequence = 335 Nucleotides)
CTGGCTCTGT GGCTCAGGCT GGAATGCAGT GGGCCGAGGT TGGCTCACTG CAACCTCCAC CTCCTGATCT CAAGNCGTCC
TCCCACCTCA GCCTCTCAAG TAGCTGGAAC TACAGTGGAA CTACAGGTGG ACAACATCAC ACCCAGCTAA TTTTTNTNAT
TTTTTGTAGA GACGGGGTTT CACCCTGTTG CCCAGGCTGG TCTCAAACTC CTGAGCTCAA GCAATCTGCC CACCTAAGCC
TCTCAAAGTG CTGGCATTAC AGGCATGAGC CACCGTGCCT GGCCTGGGAA GCTCTTTTAA CAGAGGTGAT GTAAAGTAGA
AAAAGCAGTG GGCTC

SEQ ID NO:2068:   (Length of Sequence = 274 Nucleotides)
GCAACGGAAT GGACAGGGTA AGAAGGAAT GGGAAGAGGC AGAGCTTCAN GCTAAGAACC TCCCCAAAGC AGAGAGCCAG
ACTCTGATTC AGCACTTCCA AGCCATGGTT AAAGCTTTAG AGAAGGAAGC AGCCAGTGAG AAGCAGCAGC TNGTGGAGAC

439

CCACCTGGCC CGAGTGGAAG CTATGCTGAA TGACCGCCGT CGGATGGCTC TNGAGAACTA CCTGGCTGCC TTGCANTATG
ACCCGCCACG GGCTNATCGN ATTCTNCAGG GCTT

SEQ ID NO:2069: (Length of Sequence = 321 Nucleotides)
GTGCCATCTG TTTACTTCTC AAATGAAAAA GAATTCAGGT CTGAGTGTCC AGGAAAGGGG GTGAATTTCA TAACCGCCTG
TGACAGCGAT GGGAAGGAGC CACACCCCTC CAGAGGGTAC CACCCAGCGG ACAAGTGGGG AGGAGGAAGT AGCTGGCATG
AAGCCGGCCC ACCCAACCTC CGGGAGAGAG GAAAAGGAGA ACACGGGATG AGGAGGCTTT AAATAGTATT TCATAAAATA
AAAATGCCCA GCACTCTTAG GAACCTCTCA TTCAACCGCC TAGTTTTTGT TTAAATAATT CTAATGCCAG AGCTGGGGGG
C

SEQ ID NO:2070: (Length of Sequence = 161 Nucleotides)
AAAGCTGCAT AAAACAAGTT TAATTTCCAA CCAGGGTCAC AGTCATCGCG TTATCCCACA TTTTGAGCAA GGATAGAGAA
GGTGAGTTAT TAAACATATA CAGTCTACAT TCCAGAGGAG GAACTGCAGT TACCACTATA ACACCACAGA CAAACTTTGG
G

SEQ ID NO:2071: (Length of Sequence = 288 Nucleotides)
GTGGAAGGGC CTTCATACAT GCTTCCCATC TTCAGGAACA TCAGAGAATT CATACTGGGG AGAAACCATT CAAATGTGAT
ACATGTGGTA AGAACTTCCG TCGTAGATCA GCACTTAATA ATCATTGCAT GGTCCACACA GGAGAGAAAC CATACAAATG
TGAGGNCTGT GGTAAGTGTT TCACTTGTAG CTCAAACCTT CGTATCCATC AAAGGGTCCA CACAGGAGAG AAACCTTACA
AGTGTGAAGA ATGTGGTAAG TGCTTTATTC AGCCTTCACA ATTTCAGG

SEQ ID NO:2072: (Length of Sequence = 284 Nucleotides)
TCTTGTCTTC AGACCCCTTT GCCGTATTGT CCCTCCTAAC TGGGACCTAA GCTAAGACTC AAGGGCTGCT CCCATGCCCT
TCAGTATCCC CCATAAAATC TAACTACACA TTAGAAACTC AAAGAATAGC ATAGGCATGA TCCATCACCT GCAACAGAAG
CAGTGAGGAG ACTTAAGCCA GGGTTCCTNC AAGNGATTNC ACCGACCNTT CCTGCATCTC TGNATGCCGG ACTCCTAAGC
ATTTACTCAG ATTTTAAACA GCACATAATG CCATGGCGAG GATG

SEQ ID NO:2073: (Length of Sequence = 270 Nucleotides)
GGAGCGATAC GCCCCTGTCG CGAAGGACCT GGCGTCTAGA GATGTGGTGT CTCGGTCCAT GACTCTGGAG ATCCGAGAAG
GAAGAGGCTG TGGCCCTGAG AAAGATCACG TCTACCTGCA GCTGCACCAC CTACCTCCAG AGCAGCTGGC CACGCGCCTG
CCTGGCATTT NANAGACAGC CATGATCTTC GCTGGCGTGG ACGTCACGAA GGAGCCGATC CCTGTCCTCC CCACCGTGCA
TTATAACATG GGCGGCATTC CCACCAACTA

SEQ ID NO:2074: (Length of Sequence = 278 Nucleotides)
GCACATGCCA TCAGTCCTGG CTAATTTTTG TATTTTTAGT AGAGACGGGG TTTCGCCATG TTGGCCAGGC TGGTCTCGAT
CTCCTGACCT CAGCTGATCT GCCCACCTCG GCCTCCCAAA GTGCTGCGAT TATAGACAGG AGCCACCGNC CCCGACCCTC
TCTCACTTCT CAAATCTCTT TCCTTTTTCC ACCTTCTAGG TGTCAAAGAC AGTGGATGGT CTCTGAGGTT CAAAACCAAG
CTGACCGGGT AAGTATTTAC AGCAAAGCAT CCAATGGG

SEQ ID NO:2075: (Length of Sequence = 232 Nucleotides)
GTCTCTAGGA TTCACTCAAA CCCAGGATCA CGGTTTTGTA ATGTTATCAA GGCATGATTT TGGATTTCAG AGCTGGCCCA
GTGAACAACA AGCAATCAAG CATTCCTTTC TCTTTCTTTC TCTCTCTCAC ATATACACAC ACACTCTTTC TCTCTCACGT

440

TACTTTCACT GTCACTTTCT CTCTACTGGA TAACAGGCCA AAAGTACTGG CACTCATCTT TCACTTTCTT CC

SEQ ID NO:2076:   (Length of Sequence = 223 Nucleotides)
GTCACGAGGT CAGGAGATCA AGACCATCCT GGCTAACACA GTGAAACCTC ATCTCTGATC TATTCAGGGC TCTNACTTCT
TCCTGGTTTA GTCTTGGGTG GGTGTATGTG TCCAGAAATG TATTGATTTC TTCTAGATTT CTAGTTTATT TGNGTAGAGG
TGTTTATTCT CTGATGGTAG TTTGTATTTC TATGGGATCA ACGGTGATAT GCTCTTTATC ATT

SEQ ID NO:2077:   (Length of Sequence = 323 Nucleotides)
GTCCCCCTTC CCCTCTTGTG AGACCAGGCT CTGTCTCAGG AACAGGCCTG AGGGAGGAGG AGCCACGTTC CTCCTTCCTT
GGAGCCCTGA GGTGGCCAGG CTGTCCCCAC ATAAAGCATG ACATCCAGGT GCCAGCTGGC TAAGAAATGG AGCCTGAGGC
TGCAGCTCAC CACCTGTACC TCACAGATGT CCATTCAGAG GAAAGAAGGG TGCTCCAAAC GCCAGGCCCC CAAGGAGCAC
AGACTCAGGG TCCAGGCAGG TTCAGTGCTA GTAGGCAGGT GGGCACTGCT GTCCAGGAAA ACCTGGTGGG CAGCTGTTTT
CCC

SEQ ID NO:2078:   (Length of Sequence = 310 Nucleotides)
AATTTGCAGT TGTTAAATCA AACCTACTGA CATTTATAGT CCCTTACTTT CTCTTCTTTC TTCCATTGTA AATGTCTGAA
ATGTCGTACA GTCATACTTC CCACTGTATT TTTAGGTTTT ACTCTCATAC TTCAATAATC ACTACCACCC TTTATTTCAA
TAAAAGTTTT AAGTCAGTGC TGATTTTTTG GTAGCTCCCA TTTTCTGATA TATTTGTCAT GTACATATGC AAGTGTATGT
AATGTAGGTG TGCATCTATA TATACCCACA TATACATATA TACATATACA TATATATGTC CATATACACG

SEQ ID NO:2079:   (Length of Sequence = 281 Nucleotides)
GAGACCTGCC AGAAGATTAA AAAAAAGAAT GAGAGAAAAG CCCAGTTAGT GGTGTGCAAA CTTACTTCCT TTAAATGTCC
CATGGATGTA GGACAGTGCC ATGTTTCAAG ATGCCTGTGA GCTAGGTCTT CAAGATTTAT AGAATGTTAC TTATGAACAA
AATATAATTA TTTATGGTAC AATTCTTGTA CTTTAGCAAA TCTGGAGTTA GTTCATAGTC AAAGTCAGTT AATATTTCTT
AGAGGAAAGT TTTGGCTTTT TGTGGCAACA TTTTTATAGC T

SEQ ID NO:2080:   (Length of Sequence = 311 Nucleotides)
ATTAAAAAGA ATATTATTTA TTATCTNCTT TATTAATACT CACATGTAAC CTTTGCTTTT TACACAAAAG TCTGCTTTAG
AAGAATGCCT CCNCGGCTTA TCATGCCCAA TGGGGCTTTT TGTTTCTGGA CCCACTTCCCC TTTCTCCACC CCCACCCCCA
CATCCAAATT ACTCTTAACA TGTTCACAGA TACCACGNAT ATTTTGTAAA CAAGNTTTGG GTTACTGGAA CTTGATTTCA
TTAACATCCC ACTTCAAAAT GGAAGGCAGG TGGAGGGCAG GGTAAGGNAA TAGGGGGAAA GAGGGCAAGA G

SEQ ID NO:2081:   (Length of Sequence = 207 Nucleotides)
GGACGCACGC TCGCTGCCAT CACCGCTGGG TGGTTTTTTC CCCCTAACTT TTTACTTAGC CTTTTTGGTT TGTNTCCCCA
CCCCCACCTC CTCACCCCCT TTCCAGTTCT TCTTCAGGCC CCTCCCAGAC GCACCCCAGC GGCCCCTGCA GCCCCTGCCT
CCAGCCTCCA GCCTCACCTT TGTGCCCAGA CTCGCATTTG GAAGACT

SEQ ID NO:2082:   (Length of Sequence = 260 Nucleotides)
TTAAAAGAAA GTGCATACTT ATTTGCAAGG AAAACAAATG GAATACACAA AAATTTTAGA ATATAAAGAC TTTTTTNCAT
TTATGTATGT GTTTACAATT CAAAATAATA AAGCTAGTTA AAAGTCAATA CATATTAGAT ATATTCAAAT ATTTTNCCAA
ATAAATTTCG ATCTTATCAG TTAACACCCA TAGCAAAAGA CTAAGGAGTA TTTGTATAAC ATTAGGGTAT TTGACCTCAT
ATTCTATTCA TTTGGGTTTA

441

SEQ ID NO:2083: (Length of Sequence = 257 Nucleotides)
AGTTTCATAT GTTTATTAAA CCAAGCATGA GGCCCTTCTG TGCACAGGGC CCTGTGTGAC GGCATGGGAG GCGTGCTCAT
GAGGCTGGGC GTGCCCGCCA GAGACCTTTC TAAAATGCAG ATTCACGACT CTCCTCCTCA AGCCACCCTA GTGGCCAGTG
GGGTCATTTC GGATCAGAGA TTCCTGGAAT AGATCTAACT AAGATGGTAG ATATTATTTT AAATAATGCC TTTTTNAGGA
ACTAGCTGCT AGGCTCT

SEQ ID NO:2084: (Length of Sequence = 255 Nucleotides)
TATTATACAG CATTGTCAAG ATTATTTGAC AAAAGGCAGT AACAAGCCGA AGGAAAACAC ATTTACAAGA AGCTGAACAA
CTTGTATCAG AACATACATC AAGGTGAAGA GTTTCGGCCC TCTTGGTATA GGGTATGTAT GTGTACATCT CCAATTTTGA
ACAATGATGA CATAAGGNCT AATACTCTAT TTATTCAGGN GACCCCATAA TCAGGATAAT AGTAGGCATT CAGAGTAATA
AAGTGATCAC AGTTG

SEQ ID NO:2085: (Length of Sequence = 290 Nucleotides)
GGACGCACGC TCGCTGCCAT CACCGCTGGG TGGTTTTTTC CCCCTAACTT TTTACTTAGC CTTTTTGGTT TGTGTCCCCA
CCCCCACCTC CTCACCCCCT TTCCAGTTCT TCTTCAGGCC CCTCCCAGAC GCACCCCAGC GGCCCCTGCA GCCCCTGCCT
CCAGCCTCCA GCCTCACCTT TGTGCCCAGA CTCGCATTTG GAAGACTCCA CCTCCCGCCC AGGCCTGGGC TGTTGGGCGG
TTGGAGATTC AGGTTTTAAT CCACACAAGC CCCAGTGAGG GGTGAAGCAT

SEQ ID NO:2086: (Length of Sequence = 342 Nucleotides)
AGTTTCATAT GTTTATTAAA CCAAGCATGA GGCCCTTCTG TGCACAGGGC CCTGTGTGAC GGCATGGGAG GCGTGCTCAT
GAGGCTGGGC GTGCCCGCCA GAGACCTTTC TAAAATGCAG ATTCACGACT CTCCTCCTCA AGCCACCCTA GTGGCCAGTG
GGGTCATTTC GGATCAGAGA TTCCTGGAAT AGATCTAACT AAGATGGTAG ATATTATTTT AAATAATGCC TTTTTGAGGA
ACTAGCTGCT AGGCTCTCTA TCCTGGGAGA AGAAGGTGAA GGTTCCGCAA TATCAATTTT CCCAACTCAG CCAAGATTTT
CCCAGCATCT NCAGGACAAG TG

SEQ ID NO:2087: (Length of Sequence = 306 Nucleotides)
TATTATACAG CATTGTCAAG ATTATTTGAC AAAAGGCAGT AACAAGCCGA AGAAAACACA TTTACAAGAA GCTGAACAAC
TTGTATCAGA ACATACATCA AGGTGAAGAG TTTCGGCCCT CTTGGTATAG GGTATGTATG TGTACATCTC CAATTTTGAA
CAATGATGAC ATAAGGNCTA ATACTCTATT TATTCAGGAG ACCCCATAAT CAGGATAATA GTAGGCATTC AGAGTAATAA
AGTGATCACA GTTGAATGAA CGTGTTCACC AAAAGTCTTA GACCAACCTG ATATCATCTT ACACTT

SEQ ID NO:2088: (Length of Sequence = 326 Nucleotides)
ATTGAATAAC TTAGGCAATC TTCCACTTTG ACTGAAATGA TTAAGATCAG TTTACCGAAA GTCATTTCAT CCTTGCCTTG
CAGGCATCTG GCTATTCTTG GTGCAGGGCT GATGGGAGCA GGCATCGCCC AAGTCTCCGT GGATAAGGGG CTAAAGACTA
TACTTAAAGA TGCCACCCTC ACTGCGCTAG ACCGAGGACA GCAACAAGTG TTCAAAGGGT AAGCCTGCTC TCTCTCTTTG
CAAGAGTTAG AATGTCCTTT GTTTCTTGGT TAGTTGTTTT TTGTGGTGGC TTGGTGGGTT TTTTTGTTTG TTTGTTCTTG
CCATCA

SEQ ID NO:2089: (Length of Sequence = 291 Nucleotides)
GGGTTTCCCT TTCCACTCAT CGGAGATTCA GAGGGATGAG CTGGCACCAG CTGGGACAGG GGTGTCCCGT GAGGCTGTAT
CGGGTCTGCT GATCATGGGA GCGGGCGGAG GCTCCCTCAT CGTCCTCTCC ATGCTGCTCC TGCGCAGGAA GAAGCCCTAC

442

GGGGCTATCA GCCATGGCGT GGTGGAGGTG GACCCCATGC TGACCCTGGA GGAGCAGCAG CTCCGCGAAC TNCAGCGGCA
CGGCTATGAG AACCCCACTT ACCGCTTCCT GGAGGAACGA CCCTGACCCG G

SEQ ID NO:2090: (Length of Sequence = 293 Nucleotides)
TTATGTGGAA TACCACACGC CCTGGTACAT GGCTGAACTC TTCCCCCTTCA TCCTGCTTGG GGTCTTCGGG GGCTTGTGGG
GAACCCTCTT CATCCGCTGC AACATCGCCT GGTGCAGGAG GCGCAAGACC ACCAGGCTGG GGAAGTACCC GGTGCTGGAG
GTCATTGTGG TGACTGCCAT CACTGCCATC ATTGCCTACC CCAATCCCTA CACACGCCAG AGCACCAGCG AGCTCATTTC
TGAGCTGTTC AATGACTGTG GAGCCCTTGA GTCTTCCCAG CTCTGTGACT ACA

SEQ ID NO:2091: (Length of Sequence = 274 Nucleotides)
CTTTTGGAAT GGTCAAACAA TTTAAGTCAA ATGTTTTAAT GGTGCAATTA AAATAAGGGT TCAAACATGT TTTCAATATA
TTAATTNCTT TAAAGTCATG TTCAGGCAAG GTGCTGTTTA AAAAACCACT ATTAGCTTTG TCCACACATG TAAGTTATCA
AAAGTTACCA AGGTAATTTT GACGTTGAAT GCAGCTTTAA ACAATAAAAA AATGGTATTA GGTTTACTTC TCGAAGCAAA
GAGAGCCCCC AACCTTGTAA ACTAAACATT CTGA

SEQ ID NO:2092: (Length of Sequence = 290 Nucleotides)
GGTACGTAGG ACGCTGGCCC TGTCCTCCGG CCGGNTCTGG TCAGACACAA TCATGGTCTC CACCACGAGG TGTGCAATGC
CTGGNAGGGT GGTTTGCTCC AGGTCCAGGA GGGCAGATCC ATGGGCGATG GTCCTCCTGA GCTCCAGAAG GCTACGGAAG
GAGAGCGAGG CAACATGGGG CTTCCCCCAG CGCTCCGTCT CCTCCTCCAC GTCCTCCTCA AACTTGATCC AGCGGGCCGT
CTCCCGCCAG TGGGGCTCCT GGCTGCGGTC CAGCATCAGC TCGTTCAGCT

SEQ ID NO:2093: (Length of Sequence = 323 Nucleotides)
AGCTACACTG ATACAAGTGG ACCTAAAGAA ACGAGTTCCG CTACTCCGGG ACGAGACTCC AAAACCATCC AAAAGGGATC
AGAAAGTGGG CGTGGGAGGC AGAAATCTCC TGCACAGAGT GACAGCACAA CACAGAGAAG AACTGTAGGC AAAAAACAAC
CCAAAAAGGC TGAGAAGGCA GCTGCTGAAG AGCCTCGTGG AGGCCTGAAG ATAGAAAGTG AAACCCCTGT AGACTTGGCT
AGCAGCATGC CCTCCAGCAG ACACAAAGCA GCCACCAAAG GCTCAAGGAA ACCCAATATA AAGAAGGAGT CTAAGTCTTC
CCC

SEQ ID NO:2094: (Length of Sequence = 255 Nucleotides)
AAGGATGTTT TGGTTCCCTG CCTCAAGGCC GGCCATGTGG GAGTTGTATC TGTGGAGTTC ATTGCCCCAG CCTTGGAGGG
AACGTATACT TCCCATTGGC GTCTTTCTCA CAAAGGCCAG CAATTTGGGC CTCGGGTCTG GTGCAGTATC ATAGTAGATC
CTTTCCCCTC CGAAGAGAGC CCTGATAACA TTGAAAAGGG CATGATCAGC TCAAGCAAAA CTGATGATCT CACCTGCCAG
CAAGAGGAAA CTTTT

SEQ ID NO:2095: (Length of Sequence = 305 Nucleotides)
GCACTCCAGC CTGGGCAACA AGAGCGAAAC TCCATCTCAA AAAAACAAAG AAAGAAACTN CTGAAGTCGG GGGCTGCTAG
AGGATTTTCA GGAAGGGTCA ACACAGGCCT CACTTCCAGT CCCTCATTTC CCAGCTCACA GAGTCACCAG AGGGTGAGAA
GCAGAACGTG CCAGCAAAGA GGGAAAAGGC CACAGAACCA CCTTNTCCTC AATTACAAAG GGGTGCATTT CAGAGGAGGG
AATAGGGATG GAGAGGAGGA AAGACCTGC CCAGGAGCCA GATAAATTCA AAGTCACCAA GATGG

SEQ ID NO:2096: (Length of Sequence = 327 Nucleotides)

443

CTAGATATAA CTACCCTTCT CTATTCCTCA CCTAAATCCT TATACTGCTG ATGACTTTGG AAAATAGTAC AGGGTTTTAC
AGTCTAATCA TGACAATACA TCTCCAGGNT CCTTGAGCCA AATACATTCC TCAGAATACT TTTTTTAAAA AACTGAAATT
GATTACTTGT ACTTTGTCAT CACCAAAAAT ATCTGTAGCA AGACATACTG TTCTCAGCAT CCACTTCTAC CATCCTCACT
ATTGTAACTC ACAGTAGACT ATGCCTCCTA CTTTACTGAA AAGATACAAA CCATTACCTA GCAATCATTC TTCCACCTTA
AACATAT

SEQ ID NO:2097:   (Length of Sequence = 296 Nucleotides)
CACCCTGCTG AGGTCAATTT CGTCACTGAT GCCTCGGGTC ACATAGGCCC TGATGACCCA GATTTCACAC AGAGGTCAGT
ACATCGGTCA ACTTTCCTCC CAGGAGGGGC CGGGGCTGGT GGGCCATGCC CACTCCGTGC CACATGCCTA GCATTCAGAG
CTTTGTAAGG AAGCCCTGTT CTAAATGCTC AGGTCCCACC CTTCCTTGTC AAGAGAAGCC ATGGGCTTCC TGCTCCTGTG
TCACAGTGTG CCACTTGAAG GGTGGCTCTT CCCCATTCTT CTTCCATGGG GGCCAG

SEQ ID NO:2098:   (Length of Sequence = 324 Nucleotides)
ATTGGTTTTN TTGAGTGTTT TCTTCTTTTT NTTTGTTTTC AACATACTTA CTGCGTATAA AGTCATGCAA AGAAAACAGT
GCAGACAGTA GATCCTAGTG GATGTGCCAA GGTATTCCAC TCAGAGTCAA TCCCAGGGAA AGAGGGAAAG AGGAAAAGAA
AGAGAGAATG CGAACCCGAG GCTGCAGGAT GAGGCATGAA GAGTAGAAAT TCCCAGTGCT TTGCTGTGGT CATCAGACGC
CAAGGGGAGA GAGGCAATNA AGACACACGC TCACGGGCCC CCCAGAGGTG GGTGGGGGGT GCTGGGGGGC GGCACACAGA
TATG

SEQ ID NO:2099:   (Length of Sequence = 299 Nucleotides)
GAAACCGTCA GTAAGGAGCT CTTTATCTTT ACCTTCCCAC TCCAAACCTA CTTGCTAGCT GTTCTTATCA TTGCCTCCTT
TTTCTCTGTC ACAAAAATGT GTTCCATCTT AATGAACACA TTTCATTAAT GTCCTTCTTA ATGAAGGACA GTCCCTTTCC
CTGTGCTGTG AATCCCATAG TAATGACATT AGCTTAAGTT TTCTGAGCAC TTGCTATCTG CCAGTTCCTC CCATGAATTA
TCTTGCTTAA GCTTTGCAGT ATACCTGTGA AATAGGTGGC AGTAGTTGTC CCACCATAC

SEQ ID NO:2100:   (Length of Sequence = 308 Nucleotides)
GGCAGCTTAT TTTGGATTGG TTCACAATGT GGATCAAACA GGAAAATCTG TTATCATCAA CAAGACCAGC AGCACCAGAA
TNTNCCGAGT CTTCCAGCAG TGCAGGCTCC TCAGGNTCGC TGTCCCGCAC CCATCCACCT CTCCAGAGCA CACCCCTAGT
CTCAGGTGTG GCAGCTGGCT CTCCAGGCTG TGTGCCTTAT CCAGAGAATG GAATAGGGGG CCAGGTTGCT CCCAGCAGCA
CCAGCTACAT CCTCCTTCCA CTTGAAGCTG CAACAGGCAT CCCGCCTGGG AAGCAATCCT TCTTTAAT

SEQ ID NO:2101:   (Length of Sequence = 291 Nucleotides)
GATGATGATT GCATGGGGTT TGATGCTACA CTGGATCATA GAGTGTGGGT TCTTTCTTAC ATGTNTTGGT AGATAAATGT
CATAGACTGA TCCTGAATCC ACATCAACAG CATGGAATCC AGCACAGGAT CCATAGATCA CTTTCAACCT CTGGCCTTCC
TCAACAGTGA GATCCACCAG TAATGGCTTA TGTACCAATT CTCCAAATGA CTTAAAGGCC ATAAATTTGG TGATATGGCT
TTGGNGCCCA CGCATAGGAC TTCCACAGAA CTTTTTCAAA GGCAATCACC C

SEQ ID NO:2102:   (Length of Sequence = 323 Nucleotides)
GATGATGATT GCATGGGGTT TGATGCTACA CTGGATCATA GAGTGTGGGT TCTTTCTTAC ATGTGTTGGT AGATAAATGT
CATAGACTGA TCCTGAATCC ACATCAACAG CATGGAATCC AGCACAGGAT CCATAGATCA CTTTCAACCT CTGGCCTTCC
TCAACAGTGA GATCCACCAG TAATGGCTTA TGTACCAATT CTCCAAATGA CTTAAAGGCC ATAAATTTGT GATATGGCTT

444

TGGTGCCCAC GCATAGACTT CCACAGAACT CTTCAAAGCA ATCACCAGAA ATTTGATTCT TTCATATTTT ACAACTTTAT
AAT

SEQ ID NO:2103:   (Length of Sequence = 270 Nucleotides)
CCTTTCACTC CCCCGCCCTG GGCCTCTGCT CTCTTGCCTG GNTTCCTTCT TTTTTGAGGG AAAGAGGGTG GGGCTGCAGG
CAGTCTACTG GCAGGACGGG AGGCTGAGTC CTCAGGGTCT CACACCCTCA GTGCTGATGC CATGCCAACT GCCTGGGACA
ACACCAACAC GTAAGGACCT AATTAAACCA AACCAGAGTC GGGTGTAGAC CAGCCCTGGG ATTTCCAGCT NTGACTNGGC
CAGGGCACAC GTTGGTCTCG GCAGTGGCTG

SEQ ID NO:2104:   (Length of Sequence = 367 Nucleotides)
CCTTTCACTC CCCCGCCCTG GGCCTCTGCT CTCTTGCCTG GCTTCCTTCT TTTTTGAGGG AAAGAGGGTG GGGCTGCAGG
CAGTCTACTG GCAGGACGGG AGGCTGAGTC CTCAGGGTCT CACACCCTCA GTGCTGATGC CATGCCAACT GCCTGGGACA
ACACCAACAC GTAAGGACCT AATTAAACCA AACCAGAGTC GGGTGTAGAC CAGCCCTGGG ATTTCCAGCT GTGACTGGGC
CAGGGCACAC GTTGGTCTCG GCAGTGGCTG TAAGGTCACC TTCCTTNCTC TGGATGCTGG TTTCAACCAT CTATATATGG
CATCCACGCA TGGGATCTGC AAGCTGGAGC CCTCCTACCC GCAGCTT

SEQ ID NO:2105:   (Length of Sequence = 288 Nucleotides)
GCAAAATTAC TGAAACTACT ACTTTGGGCT CAGAACGAGC TGGACCAGAA GAAAGTAAAA TATCCCAAAA TGACAGACCT
CAGCAAGGGT GTGATTGAGG AGCCCAAGTA GCGCCTGCNC TTGCNTGGTG GATCCAACAC CAGCCCTGCG TCGTGGGACT
TGCCTCANAT CAGCCTGCGA CTGCAAGATT CTTACTGCAG TAGAGAACTC TTTTTCTCCC TTGTACTTTT TTTTGACCTG
GNATCTTTTT ATAGGGAAAA ATGGCCTTTG TAGGCAGTGG AAAACTTG

SEQ ID NO:2106:   (Length of Sequence = 349 Nucleotides)
GCAAAATTAC TGAAACTACT ACTTTGGGCT CAGAACGAGC TGGACCAGAA GAAAGTAAAA TATCCCAAAA TGACAGACCT
CAGCAAGGGT GTGATTGAGG AGCCCAAGTA GCGCCTGCNC TTGCNTGGTG GATCCAACAC CAGCCCTGCG TCGTGGGACT
TGCCTCAGAT CAGCCTGCGA CTGCAAGATT CTTACTGCAG TAGAGAACTC TTTTTCTCCC TTGTACTTTT TTTTGACCTG
GCATCTTTTT ATAGGGAAAA ATGGCCTTTG TAGGCAGTGG AAAACTTGCA AGGAAAGCTG CCGTCTCTTT TGGCAGTCTT
GATGCAGAGC CTGCACTCTG GCACTCGCT

SEQ ID NO:2107:   (Length of Sequence = 329 Nucleotides)
GTGACAAGCT CCAGAAGCCC GCNTCGCAAC ANCCAGGAGG GCCAGGCCAC TCCAGGCAGG AGGCAGTGGG CTGGCAGCCA
CCCTGGGCAC AGAAGAGCAG ACGCAGACAG TGCTGGGCAA CGAGGGGCTT TNTTCATGGG CCCGCCTGCC CTGTCCCTCC
CCCCAGGTCC CCACCTTCTA GGGTTAAAGT GCAGCTGGGA GGGAGGAGGC AGGCAGAATT NGGGAGCTAG AGAGAGCCCA
AGTGAACCCT GACTGTCCAC GCAAGTCCCA TGTCCTCCTC GTCCTGGAGT TCCTCGAGGT TCAGCGAGCC CATCCCGCCT
AGGGCCTCT

SEQ ID NO:2108:   (Length of Sequence = 261 Nucleotides)
TTTTCATGGC AGCCTGAGCA GACTAAGACA GCAGCTAACA CAGCAAGATC ATACCAGTTA ACCTTCCTGG TTAGAAGACC
TGAGCCTCCT GACTTCCGGT CACTGGATAC TCTCTGTNAG GCTCATGATT TNAACTCTNT AGTCACTGCT GGCTTGGAAA
CCTCTAACTC TCTCTGCCTC TTGACAGTGT TCCCTCAAGG GAGTCCATTA GCCAGGACTA GGTTACATGC CCCTGTGTTA
GCTGTGAGGG ACAAGGCAGA G

445

SEQ ID NO:2109: (Length of Sequence = 329 Nucleotides)
TTTTCATGGC AGCCTGAGCA GACTAAGACA GCAGCTAACA CAGCAAGATC ATACCAGTTA ACCTTCCTGG TTAGAAGACC
TGAGCCTCCT GACTTCCGGT CACTGGATAC TCTCTGTTAG GCTCATGATT TAAACTCTGT AGTCACTGCT GGCTTGGAAA
CCTCTAACTC TCTCTGCCTC TTGACAGTGT TCCCTCAAGG GAGTCCATTA GCCAGGACTA GGTTACATGC CCCTGTGTTA
GCTGTGAGGG ACAAGGCAGA GAAATAACTG CCCAAGTTCA GCTTCCCATA ATGTTTGGGG GATGCTATGA CTCAACTTTG
ATCTATTTT

SEQ ID NO:2110: (Length of Sequence = 271 Nucleotides)
GGCTTGAGCA GACAGAACGG GGAAGACTCC ACTCTGTCCC GAGGGGCCAG CCGCAGTTCG CCCAGGGCCA CCCTGCCCTG
AGGTCCTTGT GTGGCCGCCC TGGCTTGGCA GCCCTGCCCA CGCTGCCCCC GCAAACAATG GTGTGTGCGT TTTTACAGCC
CTTTTTAGGA ACCCAATATG GGCATAAATG TAACACCTGT AGCGGGGGCA GATTCTCTGT ATGTNCAGTT AACAAATTAT
TTGTAATGTA TTTTTTTAGA AATCTTAAAA T

SEQ ID NO:2111: (Length of Sequence = 315 Nucleotides)
GGCTTGAGCA GACAGAACGG GGAAGACTCC ACTCTGTCCC GAGGGGCCAG CCGCACGTNC NCCCAGGGCC ACCCTGCCCT
GAGGTCCTTG TGTGGCCGCC CTGGCTTGGC AGCCCTGCCC ACGCTGCCCC CGCAAACAAT GGTGTGTGCG TTTTTACAGC
CCTTTTTAGG AACCCAATAT GGGCATAAAT GTAACACCTG TAGCGGGGGC AGATTCTCTG TATGTNCAGT TAACAAATTA
TTTGTAATGT ATTTTTTTAG AAATCTTAAA ATTGCCTTTG CACTGAAGTA TTTTCATAGC TGTTTATATC TCTTT

SEQ ID NO:2112: (Length of Sequence = 275 Nucleotides)
GCAAGANAGA CCAAAACCTA ACCTGAGTTA CAAGAAACAA GACAGTAATG GCTATAAAGG GAGTGACCAG GAGCAACTGG
GACACTCCTT TACCTCCCAT ATCCAATGTA TGTNTTTCAC AGAAAAACAA CAAAATTAAC AAATTCACAA AATACAACAG
CTAGAATTAC AAAATCCATT CATCCAAGGG TGGTAGAAGG CAGGATGGNA AGGTGGAAGG GTAAATNGCA CAGGGAGAAA
AACAAAGTGT TCCAATCAGT CCAGGCACAG GGACT

SEQ ID NO:2113: (Length of Sequence = 227 Nucleotides)
GGCGCATCAG TGGGGGGTGC TGTCAAAATT AGTGAAATCA GATACAGTTG ATGGGCAGGG AGGGTGGGGT AAGAGACAAC
TCCAGTGCAG TGCCAGGTGG GCAGGCTCCC ACTGTTCACT TGAGACGCTC CTCCCCACTC AGGTGGGGAC AGGGGACACA
CTCGCAGGGC AGGGCATTCT GGAGGTGTGG GTACAGGTGA GGGGAAATGG GAGGCACAGC CAGGAGT

SEQ ID NO:2114: (Length of Sequence = 339 Nucleotides)
GGCGCATCAG TGGGGGGTGC TGTCAAAATT AGTGAAATCA GATACAGTTG ATGGGCAGGG AGGGTGGGGT AAGAGACAAC
TCCAGTGCAG TGCCAGGTGG GCAGGCTCCC ACTGTTCACT TGAGACGCTC CTCCCCACTC AGGTGGGGAC AGGGGACACA
CTCGCAGGGC AGGGCATTCT GGAGGTGTGG GTACAGGTGA GGGGAAATGG GAGGCACAGC CAGGAGTGGG GCAGGAGGGA
AGGCCAGTTC GTNGGCAGGC TGAGGAGGGA ATATNACCCC CCTCAAGTCC CCAAAGTGGC AGGCAAGTTA AGGGGCCCTG
GATGAGGTGG CCCCTCATG

SEQ ID NO:2115: (Length of Sequence = 262 Nucleotides)
TGGAACACAA AATTCCCTGT NTTAACATTG TACATTCGGG GCCTALCTGC CCTTGAGGAT GTCCTAGTTA CACCCTCTCT
GATACCTGTG GAGTTTAAGC ACCATTCCTA CCNCTGTGTC CCTTNNGAGG GGGTGCAGTC GAAGCTCTTA AAGGGGANTG
CTTGCTCTGC CTCTGTGGCT TTTTGTTTGG GAAAGGGAGT TNGGATTNGA GGATTTAGAT TTNAGGTCAT GATGTCAGAG
CACACCAGGA ACTCCCAAGG CT

446

SEQ ID NO:2116: (Length of Sequence = 153 Nucleotides)
AAGAAGCGAA GAGGATTCGT GAGCTGGAGC AGCGCAANAC ACGGTGCTGG TGACAGAACT CAAAGCCAAG CTCCATGAGG
AGAAGATGAA GGAGCTGCAG GCTGTGAGGG AGAACCTTAT CAAGCAGCAC GNGCAGGAAA TGTCAAGGAC GGT

SEQ ID NO:2117: (Length of Sequence = 231 Nucleotides)
GAATATAATG TGTATCTNCA AGGNTCGATC CACCCTTNCC CATCCTNTGG AGCTCAGAGA TTCTTGGGAG CTGAAGGTCT
TCTTAATGTC AGATCAGCAA CCCCAATCTC AGGCAGCTCG GATTCGCTGC TCTCGATCTN CCGCTGGCCA ATGTAAAACC
AGACGCAGGC GACCCAGTGC GCGACAGGGC GAACACGGCC ATGAGCAGTG TCAGCACCAC GGCGCTGTAC T

SEQ ID NO:2118: (Length of Sequence = 309 Nucleotides)
CGGGAAAGAA CAAATTGGAA TGGTGGGGGA TATGGGTGTG TGGTGGGGGC GGGGCAGGAG GTCCTCCGGG GTCCAGCATG
GGTCGGGAGT GGGAGCAGGA CAGAAGGTGG CCACGTCACA GGCGACTGAT GCTCAGCTCA AGGGGAGTGT GAAGAGGTTG
GCAAAGAGCT GGGGAGCCGG GCAGAGGGAC AACACTGACT NAGGACATTN CAGTTGGGAA TCAGAAAAAA AGGGGCAGCT
CAGGGGCATC TGATCTGCCT CATTTTTGAA AAAGAAACAG AGTAATGTAC AAAATTCTGG ATATCTTCT

SEQ ID NO:2119: (Length of Sequence = 308 Nucleotides)
GGTAATCGTT GAAGATTACC AAAGGTTTAT TTGGAATGAC ACAGCACTGA AAACATAATT GTTACAGATG ATTTGTGGAT
ACAGCATACA CCATCTATTT TACTTTAGAA CAATCTGTGA AGATGAGTTG CATAAATAGA AAGAGGTGGA AATATAGAGG
AGCTGTTTTT ATAGTGTTCT TTTGGGGGTA GATGAATATG CCCCATCTTT CTACCCAATC TCATAAAGGC AGAAGAGAAG
ACTGCTTAGC TGCCCATCCC AACTAGCCTA CCTCCAGCCA CAGCGGCTGG ACAGCTAGAT AAATCAGG

SEQ ID NO:2120: (Length of Sequence = 237 Nucleotides)
CCGCTCTCCT GACGGGAGCC CACTAGGGGG TCCTCTTTCA TCTTTGGTGT GGCCTTACCT CCCACCAAAG AGATCCGAGG
CTTACTCTTC TCTCTCTGGG ACCAGCATGA CCCAGGAGTC CTTCCAGGAG AGCTCTGTGA AGGAGCTGAG GCGGCTGGAG
GACCAGCTGG CCGGCCTGCA GCAGGAGCTG GCGGCTCTGG CACTGAAGCA GAGCTCGGTG GCGGAAGAAG TGGGCCT

SEQ ID NO:2121: (Length of Sequence = 224 Nucleotides)
GCGGTCAGAG GCTGAGGCCA GAGAGGTAGC AGCGGAACTN ACAGGGAGGC CAGGGGCAGA GCTGACCCTG GAGAGGGATC
CTNATGTCCT AGACACATGG TTTTNTTCTG CCCTGTTCCC CTTTTNTGCC CTGGGCTGGC CCCAAGAGAC CCCAGACCTT
GCTCGTTTCT ACCCCCTGTN ANTTTTGGAA ACGGGCAGCG ACCTTCTGCT GTTCTGGGTG GGCC

SEQ ID NO:2122: (Length of Sequence = 202 Nucleotides)
CAGCTGCAGC TTCCAACCAA GAAAACCTCA AAGCATTAGG GAAGGAGCAG GTGTGGGGCT GGGGTGGGGA GAATCCCCTA
AGCTCCAGGG CCCAGGGTCT AACCTGAGAG GTCGGGGCTG CAGGAAGCTG GGGGAGGCTC CCGGGGCTGG GGGAAGAGGA
GCCTGCCCCC AGCAGAAACA GCAGGTCTCA GCGGCTACAT GT

SEQ ID NO:2123: (Length of Sequence = 359 Nucleotides)
ATTCTCCTCT GTTCTCTTGA TGTGTAGGGA AATTGAAGA ATGACTCTGA TAAAAATCTA AAAGAGAAAC ATCGAATCCT
AACTGGCTGT GTGACCCTAA AACCTTACTC CGTCTCTTTG AACCTCAGAT TTCTCAGGGC TTGGCACATA GCAAGCATTT
CATACTCAGA AGCTGGTACT ATTACTGTTG TGTTTTGTGG GGGGAGGTTT GTTTGTTTTG TTTGGAGACA GGATCTGGCT

447

TTGTTGCCCT GGCTGGAGTG AAGTGGCGCC ATCATAGCTC ACTGCAGCNT CGCCCTCCTG GGCTCCAGCG ATCCTCCCGC
CTCAGTCTCC CGAGTAGCTG GGACCACCTG CGGATGCCG

SEQ ID NO:2124: (Length of Sequence = 233 Nucleotides)
GAAACGCCGT GCATCTCTTG TCTGTTGGCA GCGAGCACAT CGTNTGGAGA CACGAGTTTC TAAGCAGCTG GCACGAGGGC
TGCTGACGGC ATGGGTCGTG CTTCAGGGTG GCAATACCTC TTAGGAACTT AGGGCAGGAA GCAATACTTC AGCATTGAAT
GTGTGTAAAT AGTTGCTTTG AGTTGCAATT GCTATTTNCT TCTCAGTCCC AGCTCAGATC GAATTATATA TCC

SEQ ID NO:2125: (Length of Sequence = 241 Nucleotides)
GCCATGGCTT TTGGTCAGGT TCAGGGGGGC TGAGGGGGTG CTCCTCCCCT CCCCCCAGGC ACTGACACAT TGAAAGGAAG
CAGAGCAACA ATGACACAGC ACGGATGTGG GAAAGGGGAT CCCCCACGCG GGCAGGATGG TCCATCTCAC CGGGGTCTCA
CCAGGACTCC CCGCTCCCAC CCAGGGCCAG CACGAGCACC TCCCGTTTTC TCCCCAGTGC AGAGCGTGGG GTGACAGGAG
T

SEQ ID NO:2126: (Length of Sequence = 275 Nucleotides)
GTGTGCCCTC TTGCTGTGTC TTACTTCATA AGGAGTTGTA TCTTCCCACC TGCATTTCAA TACTGCCGGT TAGGACCTAA
GTAGAAGAGC AGTAAAGGCT GATTGACACA CAGGGGGATG GAGTTGGTCC TTGTCCATTC TCTCACCCTT GCTGTGCATG
TATCAATCCT TATCCCAGAA GGTACTATTT AGACTGTATA GACTGATTTA GATTACATAC TTTAGAGGAT TAAGGAAACC
ATAGAGTTTG GGCCTTGGAA CTGTTACTGC CTTGT

SEQ ID NO:2127: (Length of Sequence = 296 Nucleotides)
TTCAGCCTTA TCGAAACACA TGAAGCAAAA CCATTGAAAC TGTATGTGTA CAACACAGAC ACTGATAACT GTCGAGAAGT
GATTATTACA CCAAATTCTG CATGGGGTGG AGAAGGCAGC CTAGGATGTG GCATTGGATA TGGTTATTTG CATCGAATAC
CTACACGCCC ATTTGAGGAA GGAAAGAAAA TTTNTCTTCC AGGACAAATG GCTGGTACAC CTATTACACC TCTTAAAGAT
GGGTTTACAG AGGTCCAGCT GTCCTCAGTT AATCCCCCGT CTTTGTCACC ACCAGG

SEQ ID NO:2128: (Length of Sequence = 322 Nucleotides)
GCATGGGAGG GAGGAAGAGA GGTTTGGGGT GCGGTGGCAG GTGATATAGG GAAAGGGCTC ACGTTTCAGA ATCTGTGAAC
AATTCCATTT TTCATCAGAT AGCAGAACAA CTACAACAGC AAAACCTAGA ACATCTCAGA CAGCAGCTCT TGGAGCAGCA
ACAGCCTCAA AAGGCCACTC CTCAGGATAG TCAGGAAGGA ACCTTTGGGT CAGAGCATTC AGCGTCACCA TCACAAGGGA
GTAGTCAGCA GCATTTTCTT GAACCTGAAG TCAATTTGGG ATGATTCCAT AGATATTCAG CAACAGGATA TGGATATAGG
AT

SEQ ID NO:2129: (Length of Sequence = 222 Nucleotides)
TTTAGTGGGT CTGGGGTGGG CGCGGCCCCC GGCTAACGGG GCGGGTCTCC TCCTCTAGGC GCAGGAGTGC GCGGTGCTCT
CCAGGCCTCC CCGGCTAGGT GGAGCGTGAC ACCGCAAAGC ACACCGTCCT ACCGAGGCGG GGCCCAGGCG GCACCAGCCC
CTCCCCAGAT GGAAGTGCCC GGCAGACAGC TGCCCAAGAC CTCACAGAAC AAAGATGGAC AT

SEQ ID NO:2130: (Length of Sequence = 191 Nucleotides)
GTGGGATGCT TTATTTCACT GTGGCGGGCA GGGAACCTGG ACACGCGGCG GCACGCGGCG TGCGNGGCTG NCACTCAGGC
GGGGACTAGG CAGGGGAAGG GCTGCCCCCA GGCCTGTTGA GGAGAAACTN AGGCCAGCCC TGGCGGAGAC CTAGCCCAGC
GGGGTAAGGA GGGTGGGGGA AAACTGGGTC T

449

SEQ ID NO:2138: (Length of Sequence = 305 Nucleotides)
ATGCTGAGTC GCAGTTCCGA TGTTCTTATG CTTCCATCAG CAAATCTCAA TTTGTCAAGA TTCATGACAG ATTCTTCCCC
AGCGTTTGGT TTAATTGGAG GGACTTTATC TCCAGGCCTG CATGACTCTT CGATGCTCAG GGCACATGCC CGACCAAAGA
CAACCAGGTC CAAGAGCGAG TTTNCCCCGA GGCGGTTGGC ACCATGTACC GAGGCACAGG CGGCCTCCCC ACAGGCGTAC
AGGCCGGGCA CAATCTGATC CTGGCCATTC ACGTGCCTCA GGACCTGCCC CTTGTAGTTG GTGGG

SEQ ID NO:2139: (Length of Sequence = 263 Nucleotides)
CGGCCCCCAG CAACAGCTTC AGCCCTCTCC ACCAAGCTTG CCATCAAGGA GATTGCACCA CTGCACTCCA GCCTGGGTGA
CAGAGTTAAG ACTCTCATGG GGACACTACT GTTCAAAAGG CCCTGGCCAA ATAACTCCCA AATGAAACAC TCAACCCAAG
GATGTTTTCA GCCCACTGTT AGTGAAGCTG GGTGCAGAAT GCAAAGCCTC TAAAAGGAGA GGATACAAAG TCAGGTGAGT
AGGGGCCATT GGCAATGCTC AGA

SEQ ID NO:2140: (Length of Sequence = 255 Nucleotides)
CTGCTTCANT CTGCGCCCCT CAGCTGTGGC TTCCCGGCAT GCCCTGTGAC CCCAAGCCGC AGGTACAGGA AAGAAGTTTG
TGCTGGGGGA CTCAAAGACC CAGAGGTTAA TTAACAGGAA CCAGGGCCAG GGGCCTTCAT CTAGAGGTCA GTGGAGTCTC
CAGGGCACTC ATCACTGTGG CTGGGAGACT ACAGTGTCTC GGCTGCGGAC TTGTGGAAGA AGAGGGGGAA GGATGGGAGA
AGGGGTGACT GGATG

SEQ ID NO:2141: (Length of Sequence = 355 Nucleotides)
TTTAATTAAA TACCACTTCA TAATGTTATT TGCACCTAGT ACTTTTTTTT TTTTAAATAA GACATGCCAT AAGTCGTGAA
GTTAACAAAA TATAAGCATC CGCACAGAAT ATATTCTAAG GTGACTTCAT TTACACCGCT TCTCAGAGAA ACACACAAGT
AACCTTTTGT CTGCCTATCA GCCAGTGTTG AAACAGCTTT GGAATTCACA TGGAAGGCTG CCGGGCTGGT TCCCCAACAC
TNGCCTGATG GAGTCCTGTA TCCGNACCGT GCCGTCAAAC TGGCTGGTTT CCACTAGAAA AGCAATGGAG AGTCAGCTCT
CCCTTCTTTA CCCAGCGTTC AACTCCACAC TGCAA

SEQ ID NO:2142: (Length of Sequence = 391 Nucleotides)
CTGCTAAGTG CCATGAGACC TTAGCAGAGG CTGTGGGTGC CCCGCCCCAT TCCCTCCACT CACTCTTCCT TGCAGGTCGA
CCTGCCCTTC TTTGCTGAGG CCTTTCTCTG CCTCCAGAGC CTGCTTGGTC CTCAGGCTGT AAGTGCAGGC AGAGCTAATG
TCTCTCCATA GCTGCCCTCC ACCAGCCTGC TCCTGAGACA CCTGCTGGCC AGCAGCCTGA AGCAGAATCC TTTACTCAGA
TTCAGCCGCA CAGATGCTCA CTGCAGAGAT CTCCAAGGNC TGTGGTCATC CTTGAGCCCA TCTCAGATTT GTGTGGATAG
GGTGTTAGAG AACATGGAAT CAGCTGGATA GAGTGGTTCA TGCTTGTAAT NCCAGCACTT TTGGGAGGCT T

SEQ ID NO:2143: (Length of Sequence = 326 Nucleotides)
GATGCAGAAC AGCTTCTTGC AGAAGCACCT GCTCCGGCAT CCAGCGCTGC CTGGAGGCAG GAAGGAGAGG CAGGGCAGGA
CACGCTGGTC TGAGATGAGG GGGAGCCCCA CGGGCCCCAG GCAGGCTAGA GGAGGCACAG GCCCTGCCAC GGCCAACTCA
GGTCAGCCAG CCTGAGGCTG TGGCCTCCAA AGGGTCTGGG CGCACCCCCC AGGTCGCAGG TNTNTGAGGC CAGCCAACCT
GCAGAGCACT CGCGGCGTGG GTGGGCTGAG TGGAGGTGCC TGGGAAGCTG CCTAAATTCA GAAGCCTCCA CTTGCCATGG
AGACTG

SEQ ID NO:2144: (Length of Sequence = 357 Nucleotides)
GCACCGGGCC CCAGGAGCCC ATCAGTGACA GAGTGCTCCA TGATGATGTC CTCCACCCGG GTGATGTACA GCAGCGTCAN
AGCACCCCCA GGAACTGGGA NAGCAGGATG CCCAGGAGGA TGCCCGCCAT GATGGTGTAG TTGTCCATGA ACCAGATGAT

450

CACGGCGTTG GTGCAGCCCC GCACGTAGAT GACATCCTGC ACACTGAAAC GCTCCTTGTC GATAGTTTTN TAGCCACACA
TGGTGTTGAC AACTTCTGTC GTGTTCCTGA TGCAGCAGGT GTAGGGCACC CCACAGGCCA GGGGTCCAGG GGCACTGCAG
TCGTGGTACT GATTCTTGCT CCAATCTCGG TAGTCCT

SEQ ID NO:2145: (Length of Sequence = 420 Nucleotides)
CGCCAGGAGC TGCTAGCCAA AGCATTGGAG ACCCTACTGC TGAATGGAGT GCTAACCCTG GTGCTAGAGG AGGATGGAAC
TGCAGTGGAC AGTGAGGACT TCTTCCAGCT GCTGGAGGAT GACACGTGCC TGATGGTGTT GCAGTCTGGT CAGAGCTGGA
GCCCTACAAG GAGTGGAGTG CTGTCATATG GCCTGGGACG GGAGAGGCCC AAGCACAGCA AGGACATCGC CCGATTCAAC
TTTGACGTGT ACAAGCAAAA CCCTCGAGAC CTCTTTGGCA GCCTGAATGT CAAAGCCACA TTCTACGGGC TCTACTCTAT
GAGTTGTGAC TTTCAAGGAC TTTGGCCCAA AGAAAGTACT CAGGGAGCTC CTTCGTTTGG ACCTCCACAC TTCTGCAAGG
CCTGGCCAT ATGTTGCTGG

SEQ ID NO:2146: (Length of Sequence = 390 Nucleotides)
CCCAAATACT GTTTCCCAAA CTATGTCGGG CGGCCGAAGC ACATGCGGGT NATGGCTGGA GCCCTGGAGG GGGACCTCTT
CATCGGACCA AAAGCAGAGG AGCACCGGGG GCTGCTGACC ATCCGCTACC CCATGGAGCA CGGCGTGGTG CGAGACTNGA
ACGACATGGA ACGCATCTNG CAGTACGTCT ACTCCAAGGT TCAGCTGCAG ACCTTCTCGG AGGAGCATCC TGTGCTCCTC
ACGGAGGCCC CGCTCAACCC GAGTAAGAAC CGGGAGAAGG CGGCAGAGGT GTTCTTTGAG ACCTTCAACG TGCCGGCCCT
GTTCATCTCC ATGCAGGCTG TTCTCAGTCT GTACGNAACA GGACGCACGA CAGGAGTGGT TCTAGACTCA

SEQ ID NO:2147: (Length of Sequence = 219 Nucleotides)
TTTGTGGTTG GAGAGAAACT GGTGTTCTGC CCGGCTCTGC TTGGTCACAG ACAGCTCCAG CAAGAGCAGT TGTTAAAAGT
GCCAAGCGTG TGTATCACTG TGACAAGCCG TTTGCTTACT GCCCTGTTCC CTTNCAGCCA AACCAGCTGA TGAAGAACTG
CTGCCAGGNG GGTCCTACAG CAGGTCACAA ATGACCTAGT TTCATTTTAA GCAGACAGA

SEQ ID NO:2148: (Length of Sequence = 353 Nucleotides)
GAAATCTTTA TTACAAAAAT ATTTTGCAAG CCAAAAAGTT TAAGTTGCAA CTATATACAA AATGGGGCCT GTTTCCTTCC
CAGCAGTCTT AAAATAAACT CCTGAAACCA TGCTCCTTCC GCAGGTTGGT TCGACCTCTT CCTTTTCCTG GGGTTCAATA
CACAAGGTAT GTGGATTCTC CAGGTTGCCA GGCTAAAGCT AAAGCTATAC ATCTTCCTTG GCCTTATTCC CTTATTTCCC
CCTCCAAGAA TTAAAAAATA AAATAAAATG AAAATGGCAC CAAGAAAACA TTCTTTTAAA ATACTGAATG TGTGTGTGCA
TGCGTGTGCA CAGTATGTCC CTGTTCTCTG GGT

SEQ ID NO:2149: (Length of Sequence = 394 Nucleotides)
GGGGAGACTT TGGGCTTTNN TCATGACTGT TTGGGTCGAA GGTAGCTCAA GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT
GTGTGTGTGT GTATGTGTGT AAAGTGCTAA GAACTGTGCA TTGACATCCA AACATTTCTT GTACAAAATT TCCCTAGCAA
AGCAAACCTG CTTTGACTTA ATTTATTTGT TAAATGTTGC ACTTTGTTTA TGTATGTTTT GTTTTTGGTG GGGAATAAGG
AGAGAGAGGA CGACAAATTC TATTGAAGTA TTTATTTTGT GAAGATGGCA ATTTTGCATT TGTTTAAATA TTTTTCATTC
NNTTAATTTT GTTATCAGTG CCAGCCCAAN ATACCTGCTC TACCATTAAT TTGCGGGCCT GATAAAAAGG GTCC

SEQ ID NO:2150: (Length of Sequence = 200 Nucleotides)
ACCTCCCTGG GCCTCGGAGA CGCTGACAGC TGGACGACA GCAGCTCCGT CAGCAGCGGC ATCAGCGACA CCATAGACAA
CCTCAGCACT GATGACATCA ACACCAGCTC CTCCATCAGC TCTTATGCCA ACACACCTGC CTCCTCTCGA AAAAACCTGG
ATGTGCAGAC TGATGCTGAG AAGCACTCAC AGGTGGAGAG

SEQ ID NO:2151: (Length of Sequence = 369 Nucleotides)
GTGCGCCCCA GTCTTTCTGA AACCTGTNAT CACACTTCGG GCACTGTCCC CTCTACAGTC AATCTGTGTT TTCAGAAGTG
GCCCCAGGTT CACTCGTCTT ACAGCAGTCC TAAAGAGCCG GCTGCCCTTT CCCTAGGCTT CCTTGCTCTT NAGGGCTAAA
TTCCAGCCCT CCTACCCCAG TGCCACTTGG GTAAAAATAC TCTGCTCCTC TCACGTTTGC TAATAAGCCC GGGCTCCGAC
TACCACCGTT CGGGGGAAGG GAGCCCCTTA CCGTCATTGC TGGGTCCGCT CCGGGAAAAC ATGTGCCGGA CCTGACTTGT
GCGGCGGCAT CTTTCCGGAA ATGCCGTTTT TGTTTCCTTC TAAGGGTGT

SEQ ID NO:2152: (Length of Sequence = 312 Nucleotides)
TTCACAAACA AATTGTGGGA GAAACACACC TTCCCAGCAA TAGAAAATCT CTATAAAGTG CATTTTGCCT GCAACCATCT
CTTCCCCATG CTGGCCCTTG GGTCAGGATT TGAGGCACTG TTCCGAGGGA GCCCTCAGGG CCACCTGAGC TGGGAGAAGG
GAGGCATGAA GCCACCATGG AGCTCCAGGC TACTGGACAT ACCCTCTCTA CCCTGCCCTT CCCTNTTGGC TCCAGGAGTG
CACTGCCTGA CTCCACTGGC AGGTTGATCT GGGAACGGGC TNGGCATGCT AGGGATGGTG GAGAAGTAGG CG

SEQ ID NO:2153: (Length of Sequence = 325 Nucleotides)
CCCAGACCCA GAATGTAAAT NAGGCCAAAA TGGCCACTTC CCAGGCTGAC ATAGAGACCG ACCCAGGTAT CTNTGAACCT
GACGGTGCAA CTGCACAGAC ATCAGCAGAT GGTTCCCAGG CTCAGAATCT GGAGTCCCGG ACAATAATTC GGGGCAAGAG
GACCCGCAAG ATTAATAACT TGAATGTTGA AGAGAACAGC AGTGGGGGAT CAGAGGCGGG CCCCACTGGC TTGCAGGGAC
CTGGNGGTCT GCACCAGTTC CAGTGACCAC TTCAGAACCC ACCTNGGNGC ACCCCCCAAT GTGCTCTGGC AGACGGCATT
GGCTT

SEQ ID NO:2154: (Length of Sequence = 326 Nucleotides)
ATCATTTAAT TAACATCTTT AAATGAAACA CAGTTTTCTT CATGTGTCTC ACTCAGGCTT CAGGGCAGAG GGAATGGATT
TTTAGACATA TCAAAGACTC AAAAAATTTAA AGAAATATAT ATATGTATAT ATATACTTCT AACATTTTAT GGAAATTAAA
AATCAGAGGC TTTTGGTCTC TCCATTTACT CTAGGTCAAG CTCATTTACC CCAGAGGACA AAGAAGGGCT GCCTCTTCTA
GACCCTCCCT TCTCCTTTGT CCTNTGTCCC ACCCAGCAGG GAAACAAGCT CAGAAGGATC CTAACAGGAT AGAGTTTCCA
GTAAAT

SEQ ID NO:2155: (Length of Sequence = 317 Nucleotides)
TGGATGAGGA GACCCTGAAC ACACCCTGCT ACTGNCAGCT GGAGCCCAGG GCCTGTNACA TCCTGCTGGA CCAGCTGGGC
ACCTACGTTT TCACGGGCGA GTCCTATTCC CGCTCAGCAG TCAAGCGGCT CCAGCTGGCC GTNTTCGCCC CCGCCCTCTG
CACCTCCCTG GAGTACAGCC TCCGGGTCTA CTGCCTGGAG GACACGCCTG TAGCACTGAA GGAGGTGCTG GAGCTGGAGC
GGACTCTGGG CGGATACTTG GTGGAGGAGC CGAAACCGCT AATGTTCAAG GACAGTTACC ACAACCTTGC GGGCTCT

SEQ ID NO:2156: (Length of Sequence = 372 Nucleotides)
CTTCCAGCTG GCAGCCCAGT GGCCCACCCA TGTCAAGCAC TTTCCAGTGG GACTCTTCAG TGGCAGCAAG GCCACCTGAG
GCCCTGTNTC CCAGCCACTT TCCCTCCTGG CACTGCCACC AGCCTCACCG AGTGGCGCGA TCTCGGCTCA CTGCAGCCTC
TGCCTCCCGG GTTCAAGCAA TTNTCCTGCC TCAGCCTCCT GAGTAGCTGG GACTATAGCC GCGTGCCGCC ATGCCCAGCT
AATTTTTGTA TTTTTAGTAG AGACAGGATT TAACTATGTT GGCCAGGCTG GTCTTGATTT CCTGACCTCG TGATCCGTNC
TCNTCAGGCT TCCAAAAATG CTGGGATTAT AGGCATGAGC CACCACNACC GG

SEQ ID NO:2157: (Length of Sequence = 351 Nucleotides)

452

CTGGCTAACA TGGTGAAATC CCGTCTCTAC TAAAAGTACA AAAAATTAGC TGGGCGTGGT GGTGGGCACC TGTAGCCCCA
GCTACTTGGG AGGCTGAGGC AGGAGAATGG CGTGAGGCAA CAGTGCAGCC TGGGCAACAG TGCACCTCCT CCATCTCTAC
CAGCGTCCCC TCCAGTCTGC ACGGGGCAGT CCTCCTGGGC TTGACCTCTC TGTACCCACA GCTGGGGGCC AGGCAGCCCC
CCTCTATCCC TCCCAGCACC TACTACATCG NCCTNCACAT CCCTGATTCC TGTTGTTATG GAAACTNTTG CCAGAGATGG
AGGTTCTCTC GGAGTATCTG GGAACTGTGC C

SEQ ID NO:2158: (Length of Sequence = 280 Nucleotides)
CAGCTCCTGA GGACCGCTGC AGTGATGACA CAGGACTATT GCATCAGCAT CGTGCTCACA GGGAATCAGA GCTCAGCCAG
GAGAGGTCCA AGAATGACAG AACCATGAGC ACTCCTACCA AAACTCAGCT CTGCTCAGCC AAATCAACAA TTCAACCCAA
CAGGNCAACT CCTAACACAT CCCATCCAGA CAGACATTAG AGGCGCACAG CAGATGAACC TCCTACTTAC ACTGTCCAAG
GAAGCTGGAC TATCAATTCC CAGTAAAAGT GGGGGAAAGG

SEQ ID NO:2159: (Length of Sequence = 342 Nucleotides)
CTTGTGCGTT TCTCCTACCA GATTGTGCAT GCCTCCTGTG GGCAGAGCCT GTNCTGACTT GCTCCTGGGT CTCCAGCATC
ACCCAGTCTG GAGCTGAGGA CCTGGGTACC TACAGATTTC CTTCCACACT GTCAGAATTG AGATGAAGGA AGCCCAGAGA
AATCAAGTAC CCTCCACCAG GCAGAGCAAA GTCCTGGGTG CCCAAAATCC AGGGAAGGCA AGGGCTGGGG GTACAAGCAG
AGGATCTGAA GAGGTATATG AGAGTNGCCA GCACAGACCT GGCATAAGCT TGGTGCTCAG TGAAGGTTAC CTGATGTTGC
TGGGCACCAG GGGTGATGCA GT

SEQ ID NO:2160: (Length of Sequence = 376 Nucleotides)
ATCTTAAGAC ACATATGGAA AACAATAGGG TAGAACTTAG TAAACTACAA GAATATAAAT TGGAGCTAGA TGAAAAGGCA
GTGCAGGCAG TAGAAAAATT AGAAGAAATC CATTTACAGG TTAGTTTTTT AAATCAGGTA AGTTATCTG TAATGTGCTT
TCATTTATTT CACCGCAAAT TATATTTTGG ATATGTATAT ATTATGTTTC CTCTGCCTCT CTTGTAGCAA TTTGCTTTGT
AGAGTTCTAG AAAAAAAATG GCATCTGTTT TTCCTTTTAA ATATTTACAT TTCCATTATT ATTATAACAA AATCAATCTT
TCAGAGTAAT GATTCTCACT GTGGAGTCAT TTGATGATTA AGATCCAGTT GGCATA

SEQ ID NO:2161: (Length of Sequence = 404 Nucleotides)
CCTTCCTTCG GTTTCAACTG GACTTCTATC AGGTCTACTT CCTGGCCCTG GCAGCTGATT GGCTTCAGGC CCCCTACCTC
TATAAACTCT ACCAGCATTA CTACTTCCTG GAAGGTCAAA TTGCCATCCT CTATGTCTGT GGCCTTGCCT CTACAGTCCT
CTTTGGCCTA GTGGCCTCCT CCCTTGTGGA TTGGCTGGGT CGCAAGAATT CTTGTGTCCT CTTCTCCCTG ACTTACTCAC
TATGCTGCTT AACCAAACTC TCTCAAGACT ACTTTGTGCT GCTAGTGGGG CGAGCACTTG GTGGGCTGTC CACAGCCTGG
CTCTTCTCAG CCTTCGAGGN CTGGTATATC CATGAGCACG TGGAACGGGC ATGACTTTCC CTGCTGAGTG GATCCCAGCT
AACC

SEQ ID NO:2162: (Length of Sequence = 339 Nucleotides)
CACTGCCTTT TTGTAGCTTG GGATCTAATT TGTAACACCT TGCTACCTAT GAAAAGTGGG AATGTAAAAG GGAAAAAGCA
ACTTGGCATT TACTAAACTT AGGCTAACCA AAACCCTCTG TAGAGATCCT TACTAGACAT GGGTGCAACA GCAAGCATCC
CAGAGGACCC ACCACTGGGG TATGTTTTAG GCCAATGGAG CAAATTCAAA TTTGGCTAAA AGAAGAAGAA ACTCATTTAG
TATGGCAATA ATATTTGCGT TCGACACAAA GTGGCAAACC AACACATTTG GCCTAAACAT GGTTCTATAT GTNNNAAACA
TACTTTACAA TTAGACTTC

SEQ ID NO:2163: (Length of Sequence = 285 Nucleotides)

453

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CCCCGCCACC TCCAGCAGGA GCAGCTCAGT TTGTGGCTCT GGGAGCTCCG CTTTTGCAAA CCCAAAAAGG CTGTGCATTT
GGAAGCCAAA CGCTCAGCAT GCGGCTGCCG AGTCTGGTTT TGTGGACAAA GCAAACTGTG GAATGGCTTC TCGGTGTCTG
TATAAAGGGA CAAACGGTTG CATTCACCCT TTGTACTATA ACACCGCTTC TGCATTCGCC ATATCCGTTT TTTAACCTTT
TTGTCTCCGG GGAACTTCTC ATTCGATTAT NATGTCTTCT GATGA
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SEQ ID NO:2164:   (Length of Sequence = 296 Nucleotides)
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ATGTTTGTAA ATCACTTCCT TTTCCTACAA TATTTCTAAT AAGAAAGCTT ATAACAGCAC TTTATTGACA CCCTCGGACC
CGGGGCAGGG TCAGCAAGAC TCCCAGCTGG CATCAGACTG TGTCTGGCCT GCTGTCGCCA TCCCTGAGGG GTGCAGGACA
GAGCCCCATA GGGCAGAGAG GCCTCCCTGG GACCAGAGGA GGATGCTGTG CAGCCAGGCC CATCCCCAGC ACTCGAGGCC
TAGGAGGAGA GGTGGGCTCT GGCAGCGGGT GTNAGGTGGC AGTGAGAAGC CAGGCC
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SEQ ID NO:2165:   (Length of Sequence = 310 Nucleotides)
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GTTTTTTGTA TGTTTTTCAA ATAATGTTTT TCTGTGTGTG TTTTTTTNCT TTTTTTGGAC AGGNTCTCAT TCCCATTGCC
CAGGGTGGAG TGCAGTGGTG CGATCTCAGC TCACTGCAGC CTTGACTTCC CAGGTTCAGA TGATTCTNCC ATCTCAGCCT
CCCGAGTACC TGGGATTACA GGCACACACC ATCATGCCCG GCTAATTTTT TGTATTTTTA GCAGAGACGG GGTTTTGCCA
TGTGACTCAG GCTGGTCTCG AACTCCTGGG CTCAAGAGAT CCGCCTGCCT TGGCCTCCCA AAGTGTTGGG
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SEQ ID NO:2166:   (Length of Sequence = 361 Nucleotides)
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GATGGAAACT GGAAAAAAAA TAATTTGTAA GCAACAATTT TAGATTTTTT TATGGAGGAT AGAGACATTT GAATCAGATA
CCAAGAAATG TATAGTAATC ACTCACATAG AAAGATGTCT AAAATGGATT TTAAATGGGA TCGGGGAAAG CAAGGTGCTG
AACAACATGC TGTACATACT ACTTATAAAT CAAAGCAAAC CACTAGCAAA CTGATGTCAG TACTAACACA GGTGGAAGTG
GGATTGTGGC GGAGGGGAGA GGTAGTNAGG GTAGACTTAT TTGTACCATT TTNATTTTTG ATATTTCTTT TATATACAGA
TACATAAGTC TGTATATACA TGTATGTCCA ATTATCTCCT T
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SEQ ID NO:2167:   (Length of Sequence = 325 Nucleotides)
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TCCTGGGCTG TGCTCTGTTT GAAGGGGGCG CCCTGCTCCC CTCAGATCAG TCAGGAGGAA GATGACTAAG GGGAGGGATC
CTCTGGGTGA TGGCCTCTTC CTCCTCAGGG ACCTCTGACT GCTCTGGGCC AAAGAATCTC TTGTTTCTTC TCCGAGCCCC
AGGCAGCGGT GATTCAGCCC TGCCCAACCT GATTCTNATG ACTGCGGATG CTGTGACGGA CCCAAGGGGC AAATAGGGTC
CCAGGGTCCA GGGAGGGGCG CCTGCTGAGC ACTTCCGCCC CTCACCCTGN CCAGCCCCTG CCATGAGCTC TGGGCTGGGT
CTCCG
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SEQ ID NO:2168:   (Length of Sequence = 348 Nucleotides)
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GGAGAACCGT TCGCGGAGGA AAGGCGAACT AGTGTTGGGA TGGCCACCAA CTGGGGGAGC CTCTTGCAGG ATAAACAGCA
GCTAGAGGAG CTGGCACGGC AGGCCGTGGA CCGGGCCCTG GCTGAGGGAG TATTGCTGAG GACCTCACAG GAGCCCACTT
CCTCGGAGGT GGTGAGCTAT GCCCCATTCA CGCTCTTCCC CTCACTGGTC CCCAGTGCCC TGCTGGAGCA AGCCTATGCT
GTGCAGATGG ACTTCAACCT GCTAGTGGAT GCTGTCAGCC AGAACNGNTG CCTTCCTGGA GCAAANTCTT TTNCAGCACC
ATCAAACAGG ATGACTTTTA CCGCTCGT
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SEQ ID NO:2169:   (Length of Sequence = 392 Nucleotides)
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ATTTTGTTGA GGTCCAGTTT GGGTGGCAGA AACTAAGACA CTGAGCTGAT GAGCGCACTT GTTGCTTTTC GCCCTGCGCA
TTTATTTATT TATTTATTTA TTTATTTTTG TATTTTTAGT AGAGACAGAG TTTCACCATG TTGGCCAGGC TGGTCTCAAA
CTCCTGACCT CAAATGATCC ACCCACCTCG GCCTCCCAAA GTGCTGGGAT TACAAGTGTG AGCCACCATG CCCGGCCACC
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454

TGTTGCATCT TTAACAGCTG TGTTTGGAAA AGGGTGAGGA ATTGATTCAT CAATATTCAA TACTAAGCTG CAAAATCAGG
AATGCAGCCA ATTGGTTTAA TTGATCAAGG CTTATAAACT CTTAAGGGAC TCTAGTGAAC TGATACAAAC TA

SEQ ID NO:2170: (Length of Sequence = 273 Nucleotides)
GTTGTTGTTG ATGCTGTTGT TGTTGCTTTC TGTTTGTTTT TCTTGCAATG GTCAGGTCCC ACTCTGAACT CCGGGGGGCA
CCAACCTGAT GCCAGTAGGA TTGCCCTTGT ATAGGGTGTC TGACAACCCC TGTTGAGGGT CTCACCCTGT TGGGTGGCAC
ATGGAATAGG ACCCATTTAA TGAAGCACTT TNTCCCTTGG TGGAGGTAGT GTGCTTTNCT GGGGAAAAAC CCACTTGTCT
GGGCTGCCTG GATTCCTCAG AACTACCAGG AGG

SEQ ID NO:2171: (Length of Sequence = 357 Nucleotides)
GTGATGTACC CCAGCACTAG GGAATGATGT GAGTAAGACC TAATCCCTGC TCTCAGGGAG CTTATAGCCT ATGGCAGCAG
CAACACTAGT AAAAATTTAC TACTTTGATA GGTGCACATC TTCCTTTGGT CAGCAATTTT CTCAAAACCA CTGTAACATT
TTACTAAAAT GCTAAGCTTT GATTGTTTTT CAACTACTTC TTGAGAGTTT CTGCATGTAT GATAAGGGCA AGACATTACA
CTGAGGTATT GATGCTGATG AGCAGCAAGG CTCACTGGCT GGTGAAGGGA TACTGATTAG CACACCAATG TGCTGCTCTT
GAACACACAC CTCCACAAAA TTACAAATTA TCTTCCA

SEQ ID NO:2172: (Length of Sequence = 381 Nucleotides)
GAAGAAGGCC CATGGAGCTA AGGCCTCAGA ACACCAAAGT CTGGACTGTC TGAGGGCACA TGCTAATAAC AGGAGGCTGG
CAAAGTGGCC AGCTCCCATG CCTTTGCATG CATTTNTCTT TACCTCCTGC TGCCTGGGAA CATCCTTCCA GGAGCAATCG
AGTCAACAGC ACCACAGACA CTGCTATTCC GTTGAGAAAA GTTTTATATG GAAACACATA CTGATCATGA ACACAATAAA
CAGGGAGGGA AGCTCGGGCT CAGCCAGGAA ACCTGCCACA AGGAAGATGT TTGGAACTAT CCAGGAGTAG TGTCAAACAC
TAACACCATA TTTACAAGTC TAATTTGGAA CCTGGGCCCT TTTTAAGTGC AGGAGGAAGT T

SEQ ID NO:2173: (Length of Sequence = 351 Nucleotides)
GAAGTTCCGG GAGCGCCTGA AGGAGCTCGT GGTCCCCAAG CACGTCATGG ATGTTGTGGA CGAGGAGCTG AGCAAGCTGG
GCCTGCTGGA CAACCACTCC TCGGAGTTCA ATGTCACCCG CAACTACCTA GACTGGCTCA CGTCCATCCC TTGGGGCAAG
TACAGCAACG AGAACCTGGA CCTNGCGCGG GCACAGGCAG TGCTGGAGGA AGACCACTAC GGCATNGAGG ACGTCAAGAA
ACGCATCCTG GAGTTCATTG CCGTTAGCCA GCTCCGCGGC TCCACCCAGG GCAAGATCCT CTGCTTCTAT GGGCCCCCCT
GGCGTGGGTA AGACCAGCAT TGCTCTGGTC C

SEQ ID NO:2174: (Length of Sequence = 308 Nucleotides)
TCATTAAATA GCTTCTATGC CACACTCTGA TTAAGCCGAC TGAGGTCCCT GGGATCTGGG TCACTGGACC GAGCTGCTCG
CTCGGTGGCT CCACTGCCAG GTCCGGGCGC GCTCCCCACA GCGCTCAGTT CTGGCCCAGA CAGGGCCTGA CATCCGCCGC
CTGCAGTCCC GGGGTGGCCG TCACCGTTCC ACGGCCAGNG ACTCTNCCTG CTCGTCCGGG AAGGCGATGT CGAAGATCTC
CCGGTAGTNT TCCACGAAGG TAACCTCCAG GGCCCTCGGT GATGAAGGCT TCCAGGTCGT AGAAGTCC

SEQ ID NO:2175: (Length of Sequence = 403 Nucleotides)
CTTGCCCAAG GGCCTGAGCT GGTGGAGGCA GAGCAGGAGT TGGATCCAGG CCTGTNTGAG GCATCCTGCC ACCTCCATCC
AGACCTGGAG CAATCCCTGA GAAGGGTGGC TACCACCAGA GANGTGGCAG CTCTGGTCTC AGGAAGCATA GCCGGAGGAT
GTCCCAGGCA ACCAAACAGC CATTCATCAG TAAGGAGCCA GAGTNAGGGC TGCTAGTTCA GCCCCCGGAA GGTGGTCCAG
GGGCAGCCAG TNCAGAACTC AGCAGGAGCT CAGTTCCAAC TGAGCCTGAT TTCACTCCAG TGTCCACAAG GGACATCCTG

455

ACCTGGAGGT CCTCGGCTAC TCACCCTGGG GCCTNCTTGC ACAGCCCAGG AGCTAGCCCA GGGCTGCCTC TAAATGGTTC
CCG

SEQ ID NO:2176: (Length of Sequence = 399 Nucleotides)
AGGCAACTAT TGAGGGAAGA GGCAGAAAAA GGAAAAAGGA ATGTACGTAA GGCAATTTTN CTTAAAAGTA CAATAAGCTT
AATAGTGTTT TAGGAAGACA AGATAAAAAT TACTCAAGGC TAGCTTGGTT CTCACTGAAT AAAAACAAAG GACTAAATAC
TGAGCTCCTT CTGTGTGGAT CTAATAATCA ATGCCTTGGT CGCTATATTG GTAATCTCTG GGGTAGTCAT CCTGGTACTC
GCCATGATAC TCATCAGGGT ATTCTGCCTG ATAATCACTA TCACTGATTT CCGAACCATT TGTTCCTGTT CCTTGGCTTC
CGTTGTGAAT GACAGGTTCT GTAGGAGCAG CACAGTATTT GGGGATCATA TACTTGCCGN CCAAGGCCAT ACAAACTCA

SEQ ID NO:2177: (Length of Sequence = 302 Nucleotides)
GGTTTTTATA AAAATCAGAA TTTTTCAAAT GCATTGGTCA TTTTCAGATG CATTGGTCAC ATTTCATTAT TCCATATCAA
AAAACTGCAT TTGTTAATGT CACACAAATC TCATTGGAAA GGTCTTCAAG TATTGTGAAG TTGTCCAGGT CACAAAGATG
AATGCTAGTT TTTCAAAATT CTACTTTTTA CTTGAATGCT CAAATCTTAT AATTGGTAAC CCGGTCAGTT TTTCTTTAGT
TGATAGGCTT ACTGCTTTTA TGTGTTGAGA ATACTTGTCT GTGAAACATC CAAATCTGGA AG

SEQ ID NO:2178: (Length of Sequence = 343 Nucleotides)
GGTTTCACTC TCCTTGCCCA GGCTGGAGGA GCAATGTCAT GATCTTGGCT CACTGCAACC TTCTCCCTTC CAGGCTCAAT
CAATTCTCCT GCCTCAGCCT CCCGAGCAGC TGGGACTACA GGTGCGTGCC ACCATGCGCA NTAGGTTTTT TTTTTGTAGA
GACAGGGTTT TGCCATGTTG CCCAGGTTGG TCTCCAACTC CTGAGCTCAA GTNATCTGCC TGANGTGCTG GGATTATAGG
TGTNAGCCAC CACATCCAGC CTCCTTTTAA TGTTTTGTTG ATTATTTATA GTGAAAGATT TAAATTCCTT TCTATTTCCT
TGTGGTATAT ATTCTATAGG CTA

SEQ ID NO:2179: (Length of Sequence = 377 Nucleotides)
AGATCATCAG GAATTAGATT CTCATAAGGA ACACACAACC TAGACCCCTC AGAGGTGCAG TTCACAGTAG GGTTCATGCT
CCTATGAGAA CCTAATGTTG CAGCTGATCT GACAGGAGGC AGAGCTCAGC TGGTAATGCT CACTCACCTG CTGCTCACCT
CTTTCTGTGT AGCTCGGCTC CTAATAGACC TGTATGTGTC CATGGTCTGC GAGTTGGGGA CCCCTGCAGG AAGTCTTGTA
AATGCATGTC AGGAAACTTA CTGTTTACAG CCACATAGTT TGTAGTAGTA AGGAAACTAG GACAATTCAA ATATTCATCA
NGGGGAAAAC TGGGATAAAT TGTGGGTCAA TTTCATATGT TTCATACAGG AAAAAAG

SEQ ID NO:2180: (Length of Sequence = 195 Nucleotides)
GATATTTGCT TTTCTCAGAA CCATAATCGA TACAAGATGC AGTGACCAAT TCATTCCTTA AAACACCTGG GCTCCTTAAG
CGGCTAGAAG ACACAAGTTA CATCCAGCCC ATCAGGGAGC CAGAGGGNGA GGGGTCCCCA GCCAAGCTCT GGNCAGGCCT
GCCATGGGC AGNGCCTGAC CGTNCAGCCA GAGGT

SEQ ID NO:2181: (Length of Sequence = 244 Nucleotides)
TTGGGTGGGA ACGGGCCCGG AGCGGGAGGA ACGTGACTCC CCAGAGGGAA GATGGGCATC ATACTGGGCC CAGAGCTGGG
AAGGAGTTGC TGCCAGCACA GGGTGGGCCT GGACTCCCCT CGCCCCTACC CCCAGTGGTT GTGGCTGTAG CCCTAAGCCT
GGAGAGCAGG ACCGGCCCGG GGTGTNTNGN AGGCTGCCAG GTGCCTCCCA GAGCTCCCAA GGGCCCCCAC CTGCAAGTNC
CAGC

SEQ ID NO:2182: (Length of Sequence = 287 Nucleotides)

456

CTCCTTGAGT CTGTTGACAC GTCACATGGT CAAAGTCTCC TCATTTCAGC CAGTCTCAAC ACAAAACACC CAACAGGGAT
GCACTCAACT TGTTGGTTCC ATGTGGAACT AGGTGGCAGG GCGAGAGGGA AAGTAGTAGA AGGGGGCTAT GGTGTGTCTG
CATTCAGTCC CCTCACATAA AGCCACATGG ATCTAGGGGG GTATCCAAGA GCTCTGGTGG GGTCCGTGTT GCACCTAAGA
CATTATAGGT CAGAGCAAGT TGCTCAGAGG GTTCCAGGCA GGGGGCT

SEQ ID NO:2183:   (Length of Sequence = 389 Nucleotides)
GATCCAGAGA GGGCTCCAGG TGGAGTCCCT TTTTCTGCAT AAGGGGCTGT GACCGAAGCA CAGAGGGGAA AAAAAAAGT
GGTGGGAGCC TCCTCTGGTT TCACCTGAAG AGGGAGGTGG AAGGGCCTGA AAATTAGATT TTNTTTATAA ATAATAGATA
TTATAGGTAT ATTTNCATAT TTTTACATAA TGATGCCAAC CACAAACAAT GGACCATAAA GCACTGACCT CAGAATGATC
AATTGCAAAA TGTTTAAACC CTGGGAAGCT TTTGCTTAGG AGGGCGGATA TTCTGTGTTG ATGTTATTCT ATAGCCATAA
ACTTCCCTGA ATTTNCTGCT AATGTATCCA AGTCCAGGGA AGTCACTTAA AACTCTTCAA ATGCAGCTT

SEQ ID NO:2184:   (Length of Sequence = 383 Nucleotides)
GCAAGAGAAG CGGTTTGGGT CTCTGAAGGA AAGGCCAAAA CCCAGAACAA AGAAGAATCC TATGACTTCT CCAAATCCTA
TGAATATAAG TCAAACCCCT CTGCCGTTGC TGGTAATGAA ACTCCTGGGG CATCTACCAA AGGTTATCCT CCTCCTGTTG
CAGCAAAACC TACCTTTGGG CGGTCTATAC TGAAGCCCTC CACTCCCATC CCTCCTCAAG AGGGTGAGGA GGTGGGAGAG
AGCAGTGAGG AGCAAGATAA TGCTCCCAAA TCAATCCTGG GGCAAAGTCA AAATATTTGA GGAAGATGGN TCCACAAGGC
CAGGTTACAG AGGAATGCAA GGAGCTTCCA GGGAAGCACA GAATTCCAAG TTTTCGGAAA TTT

SEQ ID NO:2185:   (Length of Sequence = 359 Nucleotides)
CTTTAATTCA CATCACAGCA GTCAAGGAAG TGGGGAAAGG GGAAAAAAAT CAAGTGGCAG ATATTTACAT CTAAAATTCA
CATTACTTGT TGGATTTTGA ACATGCTACC ACAATATATA CAGTAAAATA CCTCTTGGGA CAATGGTACA AATTTTGTTT
CCTTTAACTT TGCTTTTCTG GTACAGGTAA GATCATTTTT AAATCACTTT TTTNCTTTAA ACATGAATAC ACAAAAGAAA
TGGTTAGAAG TTTCCTTGTT TTAAATAAGC ACAGAATGCG GGAGGTTAAA AACACATTTA TAGTGCTGAA TACCAATTGG
NCATCACACT CTATACATTT TTTGCTCAAA TTCCTGTAC

SEQ ID NO:2186:   (Length of Sequence = 337 Nucleotides)
ATAGTTATAC TCAGTGAAAT TAACAAGACC CAAAGGTGGT ATTGTCTAGG AATAAAAGGG ATAATTTTTG TTGTTCACAA
AAGTAACTTG TCTAGCACCA CACATCAGAA AAACACAAAA ATAGCACACT CTAGTTCTAA ACAGCTATGT CTAAAATAGA
TTATATAGTA AAACCGGTAT TATACAGCAT ATTGTGGATT TGATAAACAG ATAAATATTT GCNCTGAGTA GGCTGTTTAT
AATATAACAT TTNCTTATCT ATACAGAATG AAAGCCAAAA AGTTAACTGT ATAGAGATGT GCAGAACAAC ATTAAATATT
ATGGCTCAAA AGCAGGG

SEQ ID NO:2187:   (Length of Sequence = 329 Nucleotides)
GCATTTNTCA GCACAGATAG AGCCCTGTCC CTCCACCTAG TGCCCACTCC ATGACTGTTA ATAATAACAA TAATAATAAA
ACTACTGGCC AAGCACGGTG GCTCATGCCT GTAATCCCAT CACTTTGGGA GGTCGAGGTG GGCAGATCAC CTGGCCCAAC
GCCACCGCCT CTAGCTCCGG GCTCCCTGAG GTCCCCAGTG CCCTNNCCGG TCCCACGGCT CCCACGNTGC CACCCTGTCC
TGACTCGCCA CCTGGTCTTG TGGGCAGACT GCTGATCGAG TTCACCTCAC CCATGCCCCT GGAGGCGGGT GCAGAGGGAG
AACCCAGGC

SEQ ID NO:2188:   (Length of Sequence = 335 Nucleotides)

457

GGCCCCAGCT CCTCTTCCTG CCTCTNTNAT GGCTTGGGCT GGAGTGGGCT CTCTGGACCT GACCGGGGGT CAGACTGTGG
GTCCCTGCGT CTCCTGCCCA CTCTNACCGG GCTTCCTCCC TCCACGCTTA GGGTCTGTCC CGGGTACTCA GTCAGCCCAG
TGGGATCTTA CCCACTTCCC TGCAAGGTGC ACCTGCCCCA GGCTCAGGCT GCCCAGCGGC TCTTCCTGGA CAGTAAGAGC
AGGGCTGGGC GCCTCTTTCC TGGCCCGGAA GCCGCAGGGG CCCCTCCTCC AGAGCCTNGG CGCAAGGAAC ACAAGGCTGC
CGCTGCTCTT CCAGG

SEQ ID NO:2189:   (Length of Sequence = 366 Nucleotides)
AACTGGTGGA TCAGATCGAN TTCTACTTTT CTNATGAAAA CCTGGAGAAG GACGCCTTTT TGCTAAAACA CGTGAGGAGG
AACAAGCTGG GATATGTGAG CNTTAAGCTA CTCACATCCT TCAAAAAGGT GAAACATCTT ACACGGGACT GGAGAACCAC
AGCACATGCT TTGAAGTATT CAGTGGTCCT TGAGTTGAAT GAGGACCACC GGAAGGTGAG GGAGGACCAC CCCCGTCCCA
CTGTTCCCCA ACGAGAACCT CCCCAGCAAG ATGCTCCTGG TCTATGATCT CTACTTGTCT CCTAAGCTGT GGGCTCTGGC
CACCCCCCAG AAGGAATGGA AGGGTGCAAG AGAAGGTGAT GGAACA

SEQ ID NO:2190:   (Length of Sequence = 333 Nucleotides)
CTGCGATCCA GCCTAGGCAA CAGAGTTGAG ACCCTATCTC AAAACAAACA AAACAGCCAG GCACGGTGGC TCATGCCTGT
AATCCCAGCA CTTTGGGAGG TCGAGGTGGG GGGATCACCT GAGGTCCGGA GTTCGAGACC AGACTGACCA ACATGGAGAA
AGCCCATCTC TACTAAAAAT ACAATATTAG GGGGCGTGGT GGTGCATGCC TGTAATCCCA GCTATTTGGG AGGCTGAGGC
AGGAGAATCG CTTGAACCTG GGAGGCGGAG GTTGCAGTGA GCCATGATTG AGCCATTGCA CTACAGCCTG GGCAAGAGCA
AAACTCCGTC TTC

SEQ ID NO:2191:   (Length of Sequence = 284 Nucleotides)
AAGTTTATAA AAGTTTGATT ACTGGAAAAG TTCGATCTAA TTCAGAAATT TCAGGCCAAA TGAAACAGCC CCTTCAAGCA
AACATGCCTT CAATCTCTCG AGGCAGGACA ATGATTCATA TTCCAGGNGT TCGAAATAGC TCCTCAAGTA CAAGTCCTGT
TTCTAAAAAA GGCCCACCCC TTAAGACTCC AGCCTCCAAA AGCCCTAGTG AAGGTCAAAC AGCCACCANT TCTCCTAGAG
GAGCCAAGCC ATCTGTGAAA TCAGAATTAA GCCCTGTTGC CAGG

SEQ ID NO:2192:   (Length of Sequence = 260 Nucleotides)
ATGACGACGG CTACCTCGAG GTCATTGGCT TCACCATGAC GTNGTTGGCC GCGCTGCAGG TGGGCGGACA CGGCGAGCGG
CTGACGCAGT GTCGCGAGGT GGTGCTCACC ACATCCAAGG CCATCCCGGT GCAGGTGGAT GGCGAGCCCT GCAAGCTTTC
AGCCTCACGC ATCCGCATCG CCCTGCGCAA CCAGGNCACC ATGGTGCAGA AGGCCAAGNG GCGGAGCGCC NTCCCCCTTG
CACAGCGACC AGCAGCCGGT

SEQ ID NO:2193:   (Length of Sequence = 247 Nucleotides)
GGTCTCAGCA CTCGCTGGGT GACCCGCGGG AGCAGGCAAA GGAGGGCTCC CAAGTCCGTT CTGCAGCACT GGGGCAGGGA
ACAGACCCAG GNTCCTGGGA ATCCTCTTCT GCCTAGCTTT GCCTGCCTGC CAGAGCAGGG CCTGCGGTTT GGGTNCTGTN
ACCNTCCGGG GGCGGGGGAA GGGCAAGGNA GGCGGATCTC TGAAGTCCCG CCCAACTTCG CTNCTGATCC CCCAAGGTCA
GAGAGGG

SEQ ID NO:2194:   (Length of Sequence = 399 Nucleotides)
CCTCCATCTC CCCGGGTTCAA GCGATTCTCG TACCTCAGCC TCACAAGTAG CAGGGATTAT AGGTGTCCGC TACCACACCT
AGCTAATTTT TGCATTGTTA GCAGAGATGA GGTTTCGCCA GGTTGGCCAG GCTGGTCTTG AACTCCTGAC CTCAAGTGAT
CCACCCACCT TTGTTGGCCT CCCAAAGTGC TGGAATTACA GGCAACATGT AGCCTTTGAG TCTAGCTTCT TCCACTAGCC

458

TAATTCATTT GAGATTCCAC TCGATTCTAC TTGAGATTCA TCCACATTGT TGAATGCACA TTCTTTTTTA TTTGTTCTGT
AGCATTCTGT TGTGCAGCTG TGCCCCAGTT TGTTTANCTA TTCACTCTCA GTTGTTTCCA GTTTTAATGA CAACTTCAG

SEQ ID NO:2195: (Length of Sequence = 172 Nucleotides)
TCAAAGTCAG CTTCTTGACC TGCAGGGCTT CAATTTGTGG CTGACAGTTT TAACTCAGAA AATCCCTGAC TTGATTGGCT
ACATAAATNA TATGTNATAT AGCCATTAAG ATCATGGTTT TGGAAAGTAT TTTAATGATA CAGGAATGTG CTCTGAAATA
ATAAGTGGGA CT

SEQ ID NO:2196: (Length of Sequence = 398 Nucleotides)
GCAAAAAAAA AAATTATTAT CTCCACTTTA CCAGTGCTGA CACTTCACCA ATGTAGGGCT CTCAGTGACT AGCCCAGGGT
CATGCACAGC CTGTTTCAGC AGCTACCTTG GACTTGAACC CAGCTCGGTC TGTCTGACTC AATGCCTATA GTCTTAACCT
TTCCAGCAGC TGCTTCTTTG TCAAACAGGT CCTCCCGCAG GTTTTCACAG CCCAGCCCCT TACTCAACAA GTATTTATTG
ACAGGCCTCA GGAACACTAG GCAAGTAGGA TAGCAATGAA CAAGATGCTG ACCTTGACCT TGACCCTGCA TCCATAGTAT
GAGCATTTTA ACTGGGGGAG GGTTTGCAAA GTTCTCTTAA ACAGTCTACT ACATGCTCTG TAAGCATTTT CTTATGGG

SEQ ID NO:2197: (Length of Sequence = 313 Nucleotides)
GTCCCTTGTG CATTGAGTGC ATCCCCGCTG GTGACTAAGC TCGCAGCAAG CGGCTACCCC CCGATCTGCA AAAGGGCCTC
TCCCTTTGTG TTCTATACAT TGTGAATCTT CCCGTCTGAA GAACGCCCAG CCTGCCCAGA CAAAGCCCCG CCTTNCCCAA
AGCAGAGGGG CTGTCTGTGT CTCCAGAAAG GGGACATCGG GGGGGAGGGG GGCTCAGAAA GGAGAAGGGC TGTGATCTCC
GGTCCCTTCC CCCATCATCC TTCCTTAGAC TGATGCTTTG ACTGAATCAT CACTAGCTAT GGGCATTAAA AGG

SEQ ID NO:2198: (Length of Sequence = 360 Nucleotides)
GGTCTCACTA TGTTGCCCAG GCTGGTCTCA AACTCCTGTT CTCAAGCGAT CCTCCTGCCT CGGNCTACCA AGGTGCTGAG
GTTACAGGCG TGAGCACTGC ACCTGGCTAG GAAACTNAGT TTTTTCAGTG GTAGAGGCTC CTAGCCAGTG GCCAAGGGAA
AGAGAGAGTT CTGGGTTCAG GGGCTGGCAG GAAGTCAGCA AGACACCAGG GACTCGGCTC CACTGGCTGG ATCTCAGGGA
AGAGCAACTG CCACAGTGGG GACCTGGAAC ACAAAGGGAA ACTGAGGCAG CAGCTGCACC ACAGTTTACA AGTAGAAAGA
CCATGCTTGA GGACAACAGA AGTTTCACTA AGGATGCACG

SEQ ID NO:2199: (Length of Sequence = 374 Nucleotides)
TTTTGGGTAG TACCCTTGCC CTCTTCATGG CCACTTCAAA GTGAAGCCAG CAAAGTGATA ATACTTTATC ATTTAGTATT
ATCATAAAGT ATTAATACTT TGTCATAAAG TCCTCCTTGA GCCCAGGGAC CATGGAAGTC AGCTAGAAGA GCCCTGAGCA
AGGAGCAAGG ACTTGGGCTT CTCCACGCTT TGCTCCTGGC TTGTTTGACC TTGACTCATT CCCCATATGT CTTTGAGGAG
GCTCACAAAA TACTAAAGCT GGGAGGAAAC TTGGAGATCT ATAGGTCAAA CCTCCCCATT GGGCTGATGA GAAAATACAC
GCAGGCCTAG CATGGTGCCT GCCACCATGG TGGGATCCAG TATGGTTTTA TAAA

SEQ ID NO:2200: (Length of Sequence = 416 Nucleotides)
CTACTAAAAA TACAAAAATT AGCCAGGCGT GGTGGTGGGC ACCTGAAATC CCTACTCAGG AGGCTGAGGC AGAGAATCGC
TTGAACCTGG GAGGCAGAGG TTGCAGTGAG CCGAGATCGT GCCACTGCAC TTCAGCCTGG GTGACAGAGC GAGACTCCAT
CTCAAAACAA AACAAGCTAA CAAACAACAA CAACAAAAAA TACCTCTTGA CTTCTAAAGA CGCAAAAGTG GCCAAAAGTC
CAATACAGTA TTGTGTTTAT TTACATCTAT TTTAAATGCA TGTGTATCTG TAAATNCAAA GTGATTCGTG ACTCATTGTC

TCCTCAGTCT ATAGCATTAT TAACTTTCTA GGAGCAGCAG TGGAGTAGAG TGGTACTGAA TTGGTCACAG ACTTCATCCG
ATTATCAGGA TCCTGG

SEQ ID NO:2201: (Length of Sequence = 315 Nucleotides)
GAAACCAATA TAAATTTCAA AATAAACCAG CATACAGACC AATTGCAATT TATAGAAAAA ATAAAAATGT AGAAACATCA
CCTCCTCTCC CCGACCCCAG TACTGAAATT ATACTTCCTC AGACATACTG CCCCATCACT GGGAAGGGTG CGGACAGATT
GGGTACATTT ATAGANTATT AAATAATTAA GTAACAGAGG CACCGTTTTT GCATGTATGG TCCCAAAGAC TTTTCAACTT
NTTTTTCAAC ATTACAGTTG TTAAGAATGG AAATTGAAGG AATTGTACAT ATTTTCACTG GCAGTTTCTT ACAGA

SEQ ID NO:2202: (Length of Sequence = 328 Nucleotides)
GCTCTGTCAC TCAGCCTGGA GTGCAGTGGT GTGATCTCGG CTCACTGCAA CCTCTGTGTC GCAGGTTCAA GCAATTCTCA
TGCCTCAGGC TCCTGAGTAG CTGGGATTAC AAGCATGCGC CACCATGCCC AGCTAATTTT TGTATTTTTA GTAGATACAG
GGTTTCGCCT TCCTGACCTC AAGCTATCCA CTCGTCTTGG TCTCTCTCAG TTCTGGGATT ACAGGTATGA GCCACCATGC
CTGGCCGGAA TATATATATT TTTTACCACT CTATTTCCAG TGCCTAGACT AAAACCCAGC ACATGGTACA CGTCATACAT
AAGGAAGG

SEQ ID NO:2203: (Length of Sequence = 268 Nucleotides)
ATTTTGTCGT CGTCGCTCAT GCCACCACTG GGACCNACGG GGTT CGGG AGTGGTTTTT CTGGCTTGTT TCAGCCTTTT
CAGGCTCTCT TCCATCTTCT TCACAGAGTT TAATACATCT GACACGGTTT CATAGTACTT ATGAGTGCTT TCACTGAGAG
TGCCTTCTAG CCACTGCTGA ATTATTGCTT GTTTGAGCTT ATCCTTGTGT CCGCTCTGAA GCTGGAATAA GGGCTTCANA
GCACTGTCCA CATAGGAGGA AGCTTTGG

SEQ ID NO:2204: (Length of Sequence = 353 Nucleotides)
GTAAATCTNA GGTCAAGGAT GTCCCATGAT GGATGATGAC TGANATGGAC GGAAGTTTGG TTTGAAGCGG TGGCATTGGT
GCAGGCTGGC AGAGGGGGCA GTTCTGGATA GAGTGTCCTG ATGAATGGGG ATACTCATGG GAGGTGATGC AGATGAGGAT
TCTNTGCTTC TNAAGGAGGA GCCAGGCATT TAGAATGGCA CTGGAGAGCA AGGACTGACT GANCCCCTTC ACTGTGTCCC
CAAGAGGCCA GGAAGGGAAG ATTGGAGGAG ACAAAGTTGA AGTGAGTTTT CCAGGGAACG AGTCAGTTAA GAGATGGTAG
GATCTTAAGG GAAGATGGCT AAGATCTTAA GGG

SEQ ID NO:2205: (Length of Sequence = 265 Nucleotides)
GTTTCACCAT GTTGGCCAGG CTGGTCTCAA ATTTCTNACC TCAGGTGATC CACCCCTCCT CAGCCTCCCA AAGTGTTGGG
ACTACAGGCG TGAGTCACTG CGCCCAGCCG TGGTTTTTTT TTTTTAGAAA CAGTGTTTTG CCATGCTGCC CAGGCTGGTC
TCAAATCCAT AGGTTCAAGT GATCTCCCCA CCTCAGCCTC CCAAAGTGTC GGGACCACAG GCATGAGCCA CCATGCTTGG
CCAGAAAGAA GTTGTTAACA AAATG

SEQ ID NO:2206: (Length of Sequence = 340 Nucleotides)
GCAAAGCTTA TTTTTTCAGT TGTGGGCTCT AGTTTGGTTG GGAAACTATT TCCTTAGACC TGGGTCACCC CTCGGGCTCC
CTTAATCTCC CGCCATATGT TCTCCAGAAT CAGGGCATGG TGTTCTGCCC TGGTGCGACT CAGCCCGGTT GCTTTGCACA
GACTCTGGGC CAGGGCAGGA TGTCGGTGTT TGCCGGGTGT TCGCCGGGTG TTATCTGTGG CGCTCAGTAT GGTGCATAGT
GTTGACACGT GCCCTAGGTG GTGTTTAATT GATC TGGTAT AGACTCAGNC AAGGCAGTGC ACAGTGGCTC ACGTCTATTA
TCCCAGCACT TTGGGAGGCT

460

SEQ ID NO:2207: (Length of Sequence = 348 Nucleotides)
GTGTTTGTTT CTCTTTCCAC CATAATTGTA AGCTTCCTAA GGCCTCCCCA GCCCTGTGGA ATTGTGGATC AATTAAACCT
CTGTCCTTTA TAAATAACCC AGTCTGAGGC AGTTCTTTAT AGCAGCGTGA GAATGGACTA ATACACCTCC CTTCTTGAGT
CTGGAAGAAT ATGTGAAGGG AGATTGCTAA GGACTTATTT ACAGAATGGT TCTTAAAGTG CTTGGGCAAG AACTATGTAT
TTNTGGAGGC TGGTAGTGTT TCAGTGAATC TGAAAACCTT TGTGACATGT GAGAAAGGTA TGCTGTCTCT GAAAGCTAAG
TGTATTATGA AGGATCTATA AAGGGCCA

SEQ ID NO:2208: (Length of Sequence = 154 Nucleotides)
GAATCCTGCT GTGCACATTG CTTCAGATGG CTAATTATAT CTTTGGACTG TTTGTACAAC CATTGACAAA TATACTTACT
TTCATTTCTG CTAATGCAAC TGAAAAGAGC ATTCTGTAAA TTGAAGAAAA ACAAATAAAC AGNAATTAAC AACC

SEQ ID NO:2209: (Length of Sequence = 352 Nucleotides)
GAGGTTCAGA ATCCTCCATC CAGCATCTTC CCTGGTCACA TGGTCCCAAC CTTTTGCTCC ACCCCCTTCT CTGTTCCCCC
CGCAGTCCAT GCTCCAGCCA TCCTGACTCT GTCCCTGGAT TTCTGGCTTA CTGACACCTG AGCCTGTGCA CAGGNCCTCC
CTTCTGTATA GAGCACGCTT CCCATCTTGT GGACTTGCTT CCCATCTTGT GGACTCGGAG GGTTCCGAGC AGCCGTTGAG
GTGANGCTCC TATGACACCT CCNCCGTGAA GCCTNCCTCA CTTTTCCATT ACCAGTGAGG CCTGCCACAG CCTGATTTGT
ACTCTGATCC TGGCACGCAT GGAAGCCATC TT

SEQ ID NO:2210: (Length of Sequence = 338 Nucleotides)
GTCTTTCCAT CAAGAGTCAA TGTATATGCA AATATAGACT TAAGAACATA AGCATCCTGG TTTAATGTTG TTGTGAGCCC
TGTGGAAATA AAATTAAACT CAGTGAATGT TTACAAATCA ATACATAGTA ATCCTATATA TGAAAGCTAA GATGTATAAG
ATGTTTATAA ATTTNCTATT AGAAAATACT GCTTTCTTAA AGGTGATTTT AAAAAGCTAG CTGATATCTG ATGGCTCAAG
CATCCAGAAA ATGTATGCAA TGATAAGNCA TTGACTAGGA TGAACAGAAA AGGGATACAG GAAAAGTCCG AACACATGAA
ATTCTAAATT AACCAAGA

SEQ ID NO:2211: (Length of Sequence = 353 Nucleotides)
GTTCCTGGAG TACCCTCTTC CCCCAACCCC AGACCTGCTT TCAGAGCAAA ACTCAAGTCC CTCTTCCTCC GTGAAGCTTC
TCCCTCAGCT GAGCAGTGAT CACTTACTCA CTCTTAACCC CAATCCGCTG ACTGGGTGGG GACAGCACGT CCAGCCTTCC
CACCTCTCCT GCAGGCTTCT AGACGGAGTT TCAAAAACTG ATGAGCCTCG ATCCAGGGCT TGAAAGAAGC CAGGGTGTAA
TCTTGTTCAT GCATGCNTCC CCAGAGNCTC GCCCAGTGCC TGGNACATAG TAGGCACTCA ATAAATGCTG AATGGGTGAA
TAGTTGAATG ATAGGTGCTC AATAAATGAA TGA

SEQ ID NO:2212: (Length of Sequence = 293 Nucleotides)
GAGAAAGGAG GCAATCTCAG TCTCGGTCTC CAAAAAGGGA TACTACTAGG GAAAGCAGAA GATCTGAATC ACTGTCCCCA
AGAAGAGAAA CTTCTAGAGA GAACAAAAGA TCTCAGCCAA GAGTGAAAGA TTCTTCCCCA GGAGAAAAAT CCAGGTCCCA
GAGCAGAGAA CGAGAAAGTG ATAGAGATGG GCAGAGGAGA GAGAGAGAAA GGAGANCCAG AAAGTGGTCT AGGTCCAGAT
CTCATTCTAG GTCCCCCTCA AGATGTAGAC CAAAAAGTAA GAGTTCATCA TTT

SEQ ID NO:2213: (Length of Sequence = 423 Nucleotides)
NATTAACACC ACAGTGATAA ACAACTTTAA GCTTATGTTT CTTTATAGAT CACTGGCTCA CACATAATTC AAAACCCACA
CAGAAGCTAA GAGTCTTTAC ATTAAATATA TTCTTCCTAA AAATCCTTAC TGTATGCATC TGTCCTCAAG CAGTAAAATT
TGATTATGCA CCATTTTATA ATTAATATGT CACATTTACA TAGCAAAATA ATGAAGGCAC AGCTAATACA AGCAAACTTA

461

AACCCTTTCT ACTTCTGAGC TGGGGGTAGG GGCACACACT TGGGATTGGT TCTTCAAGTA TATATTTTTN CCAAACATTA
GCTTCAGTGA AGAGTTCTGG ATGATTTTCA CAGCTACACC CCTAAAAGCT ACATGGACAG AAAGACGTCA CAAGGCGCAA
GGTACATAAC GGTGGGTACA TAT

SEQ ID NO:2214:   (Length of Sequence = 259 Nucleotides)
GTCATGGAGA TCCACAGCAA GTACTNGCGC TGCCTGCAGG ANCAACCTCC ACAGCGGGGC GTTCTCTGAT CGAGGCTCAG
ACTTTCGAGA ACGAAGAAGC CGAGACGGTC ACCGCCATGG CCTCGCTNTC CGTGGGCGTN AAGCCCGCCG AAAAGAGACC
AGATGAGGAG CCCATGGAAG AGGAGCCGCC CCTNTAGCAC TNCCTCGAAG NTGCTGTTCT CTTGTCTGTC TGTCTCTGTC
TTTAAGCTCA GCCAAGAAA

SEQ ID NO:2215:   (Length of Sequence = 378 Nucleotides)
CACACATCCT CACCCCACAG AAACTGCTGG ACACACTGAA GAAACTGAAT AAAACAGATG AAGAAATAAG CAGTTAAAAA
AATAAGTCGC CCCTCCAAAA CACGNCCCCA TCCCACAGCG CTCCGCAGCT TCCCACCACC GCCCGCCTCA GTTCCTTTGC
GTCTGTTGCC TCCCCAGCCC TGCACGCCCT GGCTGGCACT GTTGCCGCTG CATTCTCGTG TTCAGTGATG CCCTCTTCTT
GTTTGAANCA AAAGAAAATA ATGCATTGTG TTTTTTTAAA AAGAGGTATC TTAATACATN GTATCCTAAA AAGAGGAGCT
CATGTGGCAA TTGGTGCACA GCAGGAGGAA ATTTCTTGGG ACTTNTTTAG GNTGAATT

SEQ ID NO:2216:   (Length of Sequence = 428 Nucleotides)
GAACCCACAC TGGGGAGAAA CCATATGAAT GTAAGGAATG TGGGAAAGCC TTCAATTATT CCAACTCATT TCAGATACAT
GGAAGAACTC ACACTGGAGA GAAACCCTAT GTATGTAAGG AATGTGGGAA AGCCTTCACT CAGTACTCGG GCCTTAGTAT
GCATGTACGA TCTCACAGTG GAGACAAGCC CTATGAATGT AAGGAATGTG GGAAATCCTT CCTTACATCC TCACGCCTTA
TTCAACATAT AAGAACTCAC ACTGGAGAGA AGCCTTTTGT ATGTGTTGAA TGTGGGAAAG CCTTTGCAGT TTCCTCAAAT
CTTAGTGGGC ATTTNAGGNA CTCACACTGN AGGAGGAAGG CCTCTGAAGT NTNAGATATG TGGGGNAAGT ATTTTGGGGN
ATCCCCCCAT GTCTTTAATA ATCCCCAT

SEQ ID NO:2217:   (Length of Sequence = 408 Nucleotides)
GTCATCAGAG TTCATCGTGA ACACCCTGAA TGCCGGCTCG GGGGCCTTGT CTGTCACCAT TGATGGCCCC TCCAAGGTGC
AGCTGGACTG TCGGGAGTNT CCTGAGGGCC ATGTGGTCAC TTATACTCCC ATGGCCCCTG GCAACTACCT CATTGCCATC
AAGTACGGTG GCCCCCAGCA CATCGTGGGC AGCCCCTTCA AGGCCAAGGT CACTGGTCCG AGGCTTTTCC GGAGGNCACA
GCTTTNACGN NACATCCACG GTTCTTTGTG GGAGACTNTN TACCAAGTCC TTCCTTAAAG CCGGGGGCTT TCAGGTTACA
AGNTTCCATT CCCCAAAGTT TNTTCCTCAA AATNNCCAGC AAAAGGTGGG TTGACTNGNG GGCCCCTNGG GNTTTCCCA
GGGCTTTC

SEQ ID NO:2218:   (Length of Sequence = 316 Nucleotides)
TTTACAGAAT ATAGCTTTAT TTATAGAAATC TTACAAATAA AACATTTACA GTCCACATAA GTTAATTTNC TTTTCTAATT
TCTTCTCATA CACCTGAGTT ATTTAAAAAA ATACTGTGAT GGAACTGCAG AACTGTAAAG GGAAATAAGA ACAATAAAAT
CCTAACCTCT CTTGCAAAAA TCAGACAACT TTGTTTTAAA GTAGATGCCC AGCATATTGC CATCTCTTTG GAAGAGGACT
TACTATACTC AGCTCTTACG NTACCCAAAC AGAGAAGCCT TCTTTTTAAA ACCCAAGGTT AAGGGCCCAG TGAAGG

SEQ ID NO:2219:   (Length of Sequence = 319 Nucleotides)
GGCTTCCTGT CCCACAACTT TCTCACGGTG GCGCCTGGAC ACAGCAGCCA CCACAGTCCA GGCCTGCAGG GCAGGGTGTG
ACCCTGCCCG GGCAGCCACC CCTCCCTGAG AAGAAGCGGG CCTCGGAGGG GGATCGTTCT TTGGGCTCAG TCTCTCCCTC

462

CTCCAGTGGC TTCTCCAGCC CGCACAGCGG GGAGCACCAT CAGTATCCCC TTCCCAAATN TCCTTCCCGA CTTTTCCAAG
GCTTCAGAAG CGGCCTCACC TCTNGCCAGA TAGTCCAGGT GATAAACTTT GTGATCGTGA AATTTTGTTC AAGACACTT

SEQ ID NO:2220: (Length of Sequence = 343 Nucleotides)
CTGGCTAACA TGGTGAAATC CCGTCTCTAC TAAAAGTACA AAAAATTAGC TGGGCGTGGT GGTGGGCACC TGTAGCCCCA
GCTACTTGGG AGGCTGAGGC AGGAGAATGG CGTGAGGCAA CAGTGCAGCC TGGGCAACAG TGCACCTCCT CCATCTCTAC
CAGCGTCCCC TCCAGTCTGC ACGGGGCAGT CCTCCTGGGC TTGACCTCTC TGTACCCACA GCTGGGGGCC AGGCAGCCCC
CCTCTATCCC TCCCAGCACC TACTACATCG NCCTNCACAT CCCTGATTCC TGTTGTTATG GGAAACTNTT NCCAGAGATG
GAGGTTCTCT CGGAGTATCT CGG

SEQ ID NO:2221: (Length of Sequence = 373 Nucleotides)
CTCTGTCTCC CAGCCCGGAG TGCAGTAGCG CAATCTTAGC TCACTGCAGT TTTGACCTCC CAGGCTCAAA TAATCCTCCC
GCCTCAGCCT CCTAAGTAGC CGAGACCACA GCTGTGCGCC ACGACATCTA GCCAATTATT TGTTTTTTGT AGAGATGAGG
TCTCACTGTG TTGCTCAGGC TGGGTAGGTG TCTAACTCCT AGGCTCAAGT GATCCTCCCA CCCCAGNCTC CCAAAGTGCT
GGGACTACAG GCGTGAGTCA CCGCGCCTGG CTTTGTTTAA GGCATTCTTT TTCCGCAGCA TCTGTTACCA GCAGCCTGAA
GNCATTTCTA TAAACAATTA TCANGGAAGA CACATGGGNC AGAGACCCTA AAT

SEQ ID NO:2222: (Length of Sequence = 197 Nucleotides)
GTCTCCTGTA ATTCCCCCAA ACCGGTTCTT GAGGATGTGA AACCAACTTA TTGGGCTCAA TCCCATTTGG TCACAGGATA
CTGTACGTAT CTNCCTTTCC AGAGATTTGA TATCACCCAG ACACCGCCAG CATACATAAA CGTGTTACCA GGTTTGCCCC
AGTACACCAG CATATATACA CCCTTGGCCA GCCTTTC

SEQ ID NO:2223: (Length of Sequence = 280 Nucleotides)
TTTTTTTTTT GCATTTTTAG TAGAGACGGG GTTTCACTGT GTTAGCCAGG ATGGTCTCAA TCTCCTGACC TCGTGATCCA
CCTGCCTCAG CCTCCCAAAG TGCTGGGATT ACAGGCATGA GCCACTGCGC CCGGCCAACT TTTTGCATGT TTTCTTTAAA
ATTTCTCTAC TTTTAATTGT ACTTCTAATA CAGACACTTC TGAAATCAGT TTTCACATTG CTGCAGCCTT ACCAATTTGT
AGANACTGTT TATGTGATGT TTTGATTCTT CATTTATATA

SEQ ID NO:2224: (Length of Sequence = 388 Nucleotides)
GATTGCAGGC ATGAACCACT GCGCCCAGTC GAGTGGTAAT ATTTTGAAAG GAAACCTTTT TCTGAGCAGG TCTCAAAAGA
GAGGTTAAAA TACTGAGTAG ACCATGCTGT AAACAGATGT GCTGTTATTC GGGCTTTGAT ATTCCATTTA TAAAGCACAG
GCAGAGCTCA GAGTAGATTT AATGTAACTC TGAAGGGCAC TAGGATTTTN AGAATGGTAA ATAAGCATTG GCTTCAACTT
AAATTCAAAT CTGCATGGC TTGTAATAAG AGACTAGCTT GTTACTGAAG CTTTNAAGCC AGTTGTTTTC TCCTATCTAG
CTAGGAAAGT CCTAGATGGT ATCTACTTCC AATAAAAGGC TGTTCTGGCC AGGCGCGGTG GCTCACGC

SEQ ID NO:2225: (Length of Sequence = 420 Nucleotides)
GGTCGAGGAG CCTGGGCCGG GCCGGGCGGG GACTACTCCG GAGTCAGGAG GCAGCAGNGG CGGAGGACGA GGATCTCTGG
CAGTCAGCGC CGCTCGGACG CCGCCGGCAC CATGGGCTGC TGCACCGGAC GCTGCTCGCT CATCTGCCTC TGCGCGCTGC
AGTTGGTCTC AGCATTAGAG AGGCAGATCT TTGACTTCCT TGGTTTCCAG TGGGCGCCTA TTCTTGGAAA TTTTTCTACAC
ATAATAGTTG TCATATTGGG TTTGTTTGGG ACCATTCAGT ACAGACCTCG ATACATAATG GTGGACACCG ATGTAATGAC
ATTCAATATC TCTGTACATC GGTCATGGTG GAGAGAACAT GGGGCCTGGT TGTNTCAAGA AGAGTGCTGC CTTCCCTCAA
GCCCCATGGC ANNGATGGAC

463

SEQ ID NO:2226: (Length of Sequence = 264 Nucleotides)
GTACCTGCTC CCTGCCGGCA CCTTTNTTGG TGGATATTTA GCTGCCCTCT ACAGTGGTTA TAACATTGAA CAGATCATGT
ACCTAGGCTC GGGTTTGTNC TGTGTCGGTG CCTTGGCTGG CCTCTCCACC CAGGGAACAG CACGTCTTGG CAATGCACTG
GGCATGATTG GGGTTGCTGG AGGACTGGCA GCCACCCTCG GAGTCCTAAA ACCGGGCCCA GAATTACTAG CTCAGATGTC
TGGAGCGATG GCTTTGGGTG GTAC

SEQ ID NO:2227: (Length of Sequence = 402 Nucleotides)
AGAGGATTGG GGCACTGGGG CAGGGGCGCT GGCACATTCC TCAGATTCTG GCATGTCATC CTGGAAGTAC TCAGCCTGGC
GGTACTGCCA CAGACGCAGG TTCCCGTCCC ACGAACTGCT GACAATCTTC TCTTCAAAGG GGTGCCAACT GACGTCACGC
ACACAGGCCT TGTGGTTGGT CAGCTTCTTC ACAATGTGGC CACTTAGAAG GTCGTACACA ACCACTTTGC CAGTGGAGCA
GCCACTGTAG ATGAACTGCT GGCCAGTGCT ATGAATGGGG GAGAACCGGC AGCGGATGAG GGTGTGCAGC ACTCCGTGGC
CCCGGTAGGT CATCAAGGAG CTGTCCCCTG GGAGCTTCAG TTTCCGCCAG GCTTTTTTNG GCACTTTCT GCCACCGATA
GT

SEQ ID NO:2228: (Length of Sequence = 394 Nucleotides)
TTTAAAGTGG AAACAATGTT TTTAAGAGGT GATATAAAGA AATGCCCCCA CTGTAATCCC TACCATATGT TGATTCTATG
TGGTGGGAGG GAGGGGAGAA TGATTCCTTT TTCTAGAATC AGAGAATTTG GAAAGTATCA AGAAAGATAA TAACAGAAAG
CATGAAATAG AGTTGTGCTT TGAAGATGAA TTGGATGAAA TTNTTATGTG AAGAGGAGTT TTCCAAAGTT GCAGACCCAG
GATTCCTGGC CAGAAGCATG AAAAACGTTTC TTTCTTACTG TTTCTAGGAC CTAGGCAGCA TTTCTTCCAT GTCTGCAACA
ACATAAGAAA CAACAGCCCA AACAGCAGCA GCAACATTCA TCTGCTTTGG ATCCCATGGA CAGTCATGGT GTCT

SEQ ID NO:2229: (Length of Sequence = 342 Nucleotides)
TTTTTTTTAG GATGATTGAG TGTTTCTTTA AAAATAAAAA CCCCACAAAA AAGCCAGAAC ACCCTACCCA ACCCAGCCCA
GTGTAACAGG TTAGCCATTA ACACAGAATA AAGAAGGTCC CAGCCACACA CGTCATTACT CGGCAGAGGG TGTCCAGCCT
GGTCGGCCGA CGTCACAGTG GATGGCCCTG CGTGGCTGGG ACACAGACAG GGAGCAGGCA TGGCACCTGC GCCACGCAGA
GCAGCAAGGC TGAGCATGAC CACTGGAAAT AAATAAACAT GGTGCCGACA GCATCTTTGA ATTAGTAAGA CGTTAGCACA
AAACAAAAAA GCACAACGAC TG

SEQ ID NO:2230: (Length of Sequence = 357 Nucleotides)
GTGGAATGCA GCCATCACAC AGTAGTTTCT GAGATTGCTT CCGTCTAGGT TTTATGGGAA GATATTTCCT TTTCTACCAT
AGGCTTCAAG GCGCTCTAAT ATCCGCTTGG AAATACTACA AAAACAGTGT TTCAAAACTG CTCTATCAAA AGGAAGGATC
CACACTGTGA GTTGAATTCA CACATCACAA AGAAATCTCT GAGAATTCTT CTGTCTGGGT TTATAGGAAG AAATCCCGTT
TCCAACGAAG GCCTCAAAGC GGTCCATATA TCCACTTGCA GATTCTACAG AAACAATGTT TCCAAACTGC TCTATCAAGA
GGAATGTTGC ACTCGGTGAG TTGAATGCAC ACATCAC

SEQ ID NO:2231: (Length of Sequence = 304 Nucleotides)
AAGAGACGAG GTCTCACTTT NTNGGCCAGG TTGGTCTCAA ACCCCTGGTC ACAAACAATC CTCCAGCCTC ANCCTCCCAA
AGTGCTGGCA TTACAAGCAT GAGCCACCAT GCCCAGCTTA AGGGGGATAT TTTTATAGAG CATCTTGCCC TGGTTCTGGA
ATTCTCTGTA GATAATACAG TTAACAGATA TTCCCCTAAG TGATTAAGAA CCTTTCCATT TGACTGATTT TNCAGAAAAG
TTTACCTATG TAACCTCAGT GGGTAGCACA ATGCCTGACA CATCTTTNNT GCTCAAATGT CTCT

SEQ ID NO:2232: (Length of Sequence = 354 Nucleotides)

464

CCTGCCACTG AGGCAGGTGC GGCCCCAGGA CCATCACCAG GAATGCNAGG CCACCCTGGA CCAGAGGTAG GAGCCCAAGG
TCCGGCCCTT GCTCTTTGAT TGTGGGCAGC CTCCTGCCCT CTCTGGGTCT CAGTTGCCCC ATCTGCAGAG CGAGGAGGCC
CGGGCTGGTT GGTCTTGAAG GCCCTTTTCC ATGCCGACAT CATGTCACTC TAGGCCTGGG GTTCAGTTTC CTGTGGCTGG
TGATGCTGTG GTTAAGTTTG CTTGACCCCA GCAGCCCGAG GGACTGTCTG AGTCACAGCA CAGCCCCTAT TGCGTGGCTG
CTGGTGTGTG GGGTCAATTC CAGCAGATGA ATGT

SEQ ID NO:2233: (Length of Sequence = 414 Nucleotides)
CCCAAAGCCC GCACGATGCA GGCCACTNCG ATTCCACCAA GATGGACTGT GTGTGGAGCA ACTGGAAAAG TCAGGCTATT
GACCTGTTGT ATTGGCGGGA CATCAAGCAG ACGGGCATCG TGTTTGGGAG TTTCCTGCTG CTGCTCTTCT CCCTGACCCA
GTTCAGCGTG GTGAGCGTCG TGGCCTACCT GGCCCTGGCC GCACTCTCAG CCACCATCAG TTTCCGCATC TACAAGTCTG
TTTTACAAGC AGTGCAGAAA ACCGACGAAG GCCACCCTTT CAAGGCCTAC TTGGAGCTTG AGATCANCCT TTCTCAGGAG
CAGATTCAGA AGTACACGGA CTTGCCTGCA GTTCTACGTG AACAGCACAC TTAAGGAACT NAGGAGGCTC TTCCTTGTCC
AGGACCTGGT GGAT

SEQ ID NO:2234: (Length of Sequence = 394 Nucleotides)
ATAATCCGAG TGCTCCATCT TCAGTGCCAT CTGGACTCCC ACCAAGTGCA ACACCCTNCA NTGTGCCTTT TGGACCAGCA
CCAACAGGAA TGTATCCCTC CGTGCCTCCC ACCGGACCAC CTCCAGGACC CCCAGCACCC TTTCCTCCTT CCGGACCATC
ATGTCCCCCA NCTGGTGGTC CTTATCCAGC CCCAACTGTG CCGGGCCCTG GCCCCACAGG GCATATCCTA CACCAAATAT
GCCCTTTNCA GAGCTACCCA GACCATATGG TGCACCCACA GATCCAGCTG CAGNTGNTCC TTTAGGTCCA TGGGGATCCA
TGTTTTNTGG ACCCTTGGGC GNCAGGAATN GGAGGGCAGT ATCCTACCCN GTAATATGGC NATATNCATN TNCA

SEQ ID NO:2235: (Length of Sequence = 376 Nucleotides)
CTGATATGAT GACAATAAAG GAGTATGCTG CTGCTGTTCC GCTTTGCGTC CTCGCTACAA ACGCCTGGTG GACAACATAT
TCCCTGAAGA TCCAAAAGAT GGCCTTGTGA AAACTGATAT GGAGAAATTG ACATTTTATG CAGTATCTGC TCCAGAGAAA
CTGGATCGAA TTGGTTCTTA CCTGGCAGAA AGGTTGAGCA GGGATGTTGT CAGACATCGT TCTGGGTATG TTTTGATTGC
TATGGAGGCA CTGGACCAAC TTCTCATGGC TTGCCATTCT CAAAGCATTA AGCCATTTGT AGAAAGCTTT CTTCATATGG
TGGCAAAGCT GCTGGAATCG GGGGAACCAA AGCTTCAAGT TCTTGGAACA AATTCT

SEQ ID NO:2236: (Length of Sequence = 399 Nucleotides)
TGGCAAGAAC ACTGAAACCC AGCCAACTTC TCCTCAGCTA GGGACCAAAA CCTTTTTGTC TGTAGTCCTT CCGAGGTTGG
AGACTCTTCT GCAGCCAAGG AAAAGGTCGC GGAGACATGC GGAGACTCCG AGGTGGAGGA GGAGTCCCCA GGAAAGCGCC
TGGACGCAGG TCTCACCAAC GGCTTTGGGG GTGCGAGGAG CGAGCAGGAG CCGGGCGGCG GCCTNGGGAG GAAGGCCACA
CCCCGACGAC GCTGTGCCTC CGAGTCCAGC ATCTCCTTCA GCAACAGCCC GCTCTGCGAC TCGAGCTTTA ATGCGCCCAA
ATNTGGGCGG GGGCAAACCG GCTCTTGTGC GACGGCACAC GCTTGGAGGA CCNCAGTNAG CTGATCTTCT GCATCGAGA

SEQ ID NO:2237: (Length of Sequence = 234 Nucleotides)
AAANTACTAA CATTTTTAAT ACAGTCTGAT CAGATCAATT CACATCACAA GGTCAACCNG GGCTTGCTCA CATGTGNCAC
AACTGAGGNA CACAATGTCC CTACCTGCCG GCTGTCCCAC CTTCCTGGTT CCCAACAGCA TTGAAACCCC CTACTTCCCT
GACCAGACTG GCATTTTTTA AAATTTTGCA TAAAACTATT TCTTCCATAG NCTTCAAACA ATCAACTAGC CAAG

SEQ ID NO:2238: (Length of Sequence = 369 Nucleotides)

465

ATTTAAGGCT GTACTTAACT AATTTGGGCT GAGGATGAAT ATATCAGCCA CAGCACATTA AAGAATGAGC CAAGGATTTG
TCATGGTTGG TCACTTTTTA AAGTATTTGA TTACTGCAAC TGGAGAATGA AAAGTGTATA TTGGTGACGC CAACCTCAGT
TTCTGAGCAC TCCTGCTCTG TGGTGAGAAT CAGACAAAAA TTCATCGGGG TGAAAAAAAA AAGGCATTAC CTGATTCACA
CCCTTGTCTT GCTAGCCCTC TTCCATTCAT TTCTCACACA GCACTTTGCT CTGTTAAATC CTCTCTCTGT CTCAGACCAT
TGCTTGCCCC TTCAAAGGGT ATGGTTCAGG CTCCTTTCAA GACATTTGG

SEQ ID NO:2239:   (Length of Sequence = 399 Nucleotides)
TTAATATAAT ATTCAAGTCT AGCATTTGCT ATTTACAACA AATAAATATT GCCCCTCCCC AATCAGTAAA CAAACATTTT
TTTTTTCTTT TTGCTTTTTA TACAAATATT CAATCACCCC ACCCCCACCC CAAATCCTCC TTCCTCACTA ACCCCCGTCT
TGCATGGTCT CGTAAAGCCC AGGACGCAGT GGTGAATGGC ACTTGCAGTG GCATGAGATT CAACATCGAT GGGACTCAGC
TGGGACTGTC CTCACTCACC GGGTGCAGAG TCTGGTCCAT GAAGAGGGNT TCTNTCTCTG CTCCCAGGGG AGGGCTGGGG
TAAGCGGTGG GTGAGACTCC CTCACTCTCA GTTGGNCCTG ATGATGGAAT CTTTNGTGCA GCCTGAGAAA GGCTAGAGT

SEQ ID NO:2240:   (Length of Sequence = 388 Nucleotides)
TTTTCAGAAT TCATCTCTGA CTTTAATGGC TTAAGCAAGA ACATGGTTTC CGTGGCTCCC CCTGGACTGA ATGCTGGAGG
ATATATACTT CACAGTCTGA GGCCTGGTCC CAGGAACTGC AATCTAACAG GATGGCAAGT GGTTTTGAAA CATATAGATT
TTCAGGATGG AAGTTTGATT CTTCAGATTG TGACTCATCC GTGGAAAATA AATGGTTTAG CACCTAAATC TGTATATTCC
CATCAGTGGC TTGGCTGACT CAGTTGTAAA TAGGGTACCC TCCATCTGTC TCCCACCCAT ATGCTCCACT GTCCCCAGGG
CCTCAGTGCC TGANCCCTAG GGGGATTCGA GTTGGCTGCT GGATTCATTT CCTGCAAGCA GGCCTGCA

SEQ ID NO:2241:   (Length of Sequence = 377 Nucleotides)
CTCCATTTTG TCCTAGTTAC TTTTAAGGTA TAAGCTGAAG TCATTGATTT GAGATGTTTC TNCTTTTCTA ATATAGGTGT
TTAATGGTAC ATATTTCTCC CTAAGTACTG CTTTAGTGGC ATCCTGCAAA TTCTGACATA CTGTGGTTCA TTTTAATTCA
TTACAAAATA CTTCTTAATT TCCCTTTTGA TTTCCTCTTT AATTCATGGG TTACTTAGAA TTGTGTTATT TAATTTNCAA
GTACTTGGCG ATTTATCTCT CTCTGTTATT CATGTCTAAT TTAATCCCAG TGTGGTCTGA GAATATATTT NGATATCAAT
AAAGCTACTC CAGCTACCTT TTGATTAATG TTATCACAGT ATATCTTTTT CTATCCT

SEQ ID NO:2242:   (Length of Sequence = 381 Nucleotides)
CCCACATTAA CCAAACACAC ACACACATGA CAAACTCTAA GTCTCCAGAC AGACACCCTC AAATAGGCAC TTGGTGTTTT
CAGCTGGGGG CTGGAGAGAT CTGGGGCTTT GGCCTCCAAA GGNAGGAGCT GCTGTCCCCA GAGAGGAGAC AACAGCTTCT
GGAGGCTCTG GGGACTCATT GGATGGGTAC TGGCTAGGTA GATGGGAAGG GGGCCTGTTT AAAGAAGACC CCCCACCCCC
ACTGCCCATT TCACCACAAC AGTGACTTGC TGGAAGTTTT GTGCCCTGCG GATTTCTGAA TATAGTGGAC AGGCATTTCT
AAAGAGCGCA TCACTGAAGG GGCAGAGGCT NGCCTTTAAA TGTGGGCTTT GCATGTTTTG G

SEQ ID NO:2243:   (Length of Sequence = 359 Nucleotides)
ACCATTTATT AAATCAGACT GTTATTCTTA ACAGTTATGT AAGTTACATG TATGTTTAAG TCAGAGTATT TCACATGGAA
AAGTTTTTAA CTCCTATAGG CAAGCAAAAT CATATCACAC AATATATAAG TGGGAAGGGG ATACTGCTAA ACATTCAAAT
AAGGCAAGTA TATAAAACCA ATAAAACAAT AATGAAAAAA TTCAAGCATT CCTTTAAGAG AATTCAACAC TACAAGCTAA
ATGTACTTTC TGAGTGTATT CGTATAATCA AGGCAGTGTT TCTCCTTTTA AAACATCAGG AAATGGAATA AGGCTCATTA
GTAGATACAG CTGCCCTCAA GATTTCAATT TCAGTTTGC

SEQ ID NO:2244:   (Length of Sequence = 362 Nucleotides)

466

ATATGTACTA CATTGGTGG AATACGCATG TACAATTCTT CAAAAATAGT AAAGAGCAAA ACAAACAAAA AATAGTAGAA
GCACTGGAGA AATACACTAT GGCATAAACT AGTTACGGGT GGGATGTCAC ATGGACCATA TCTACACTCT GTGGCAACCT
TCTTACCTGA CTCCAAAGGA TCAGATAATC AAACAGGAAA TTATGGTAGG AAATCAGAAA ATTGAAGTAT GCATTCATAT
CCTAAGCATT TTATTTTAGC TCAAAATATA AAATATTCAT CAGTTAGCCA AGCTTTGGGA TGAGAGATCA TAGCCTCCTC
TTTGATAGGN GTTTCTTGTT TTCTTGATTT CATGTTTCAG AG

SEQ ID NO:2245: (Length of Sequence = 333 Nucleotides)
AAGGATCTGA GCGAGTTCAG TGTCATTGTG GGCAACGGGG AGATTAAGCT GCCAGTGGAG ATCAGTGGGG CCATCGAGGA
GGAGTTCACT GTGGCCCGAC TCTACATCAG CAAAATCAAA TCAGAAGTCA AGTCTGTGGT CAAGCGGTGC CGGCAGCTGG
AGAACCTCCA GGTGGAGTNT CACCGCAAGA TGGAAGTNAC CGGGCGGGAG CTCTCATCCT NCCAGCTCCT CATCTCTCAG
CATGAGGCCA AGATCCGCTC GCTTACGGAA TACATGCAGA GCGTGGAGCT AAAGAAGCGG CACCTGGAAG AGTCCTATGA
CTCCTTGAGC GAT

SEQ ID NO:2246: (Length of Sequence = 347 Nucleotides)
AAACTAGCTT TGGTGGGAAC TCCCTCACCC CTGCTCCCCA CAGGAAGGCA TTAATCTATT TATGAGGGAT CTACCTGCTA
TAACCCAAAC ACCCCACCAG CCCCCATCTC CCAACACCAC CACACTGGGG ATTAAATTTC AATGTGGGAT TTGGAGAGGA
CAAATATCCA AACCATAGCA GTCTTAAAGT ATTTAAATTA GAATTTAAAT TAAAATTTAA ATTACAGTAT TTAAATTAGA
ATCATTTGTG GAGTTTCTAA AAGGTATGCA TTCCTAGGCC CCTCTCAAGT TAGATTTATG GACACTGATC CCCAGTCTGG
AATTTTAAAA CAGCAAAATC TCATACT

SEQ ID NO:2247: (Length of Sequence = 357 Nucleotides)
CACAGGACAT GCTCCGTCAG CACAAGCACT CCCAAGTCAA TCTGAAAAGC AGGCAGCAGC ATTGCAGGGG ACAGGTCCTC
CCCTGATCTG GGTGGTGGTC TTCTCCCACT TAAAGCACTA TATACAGGGG GAGGTCCCAG GCTGGACATC TTTACCAGGG
GCTGGGAGAA AGCAGGCCGT GCTCTGTGGT CTCAGAGTCT TCCTGGCGCT CTTTGGAACC TGACAGAACA TGACCTCAGT
CCCAGCCAGC GAGTGGCAGA GAGGACTTTG TACTTGGCTG CAATAAAACA TGCCCTTCTT CGCAGAGACA CGAACAATCT
CGTCTCTACC AGAGGCCTGT GAGACATCAG CTCAGGA

SEQ ID NO:2248: (Length of Sequence = 327 Nucleotides)
TTCTCTTTAT TAATGGCTAG AAAGTCAGGT TCACCCAAGG AAGTCACTGA GGGGCCACAG CATTGAAGGG TATGGGGTTT
GGAGAGATAG GAGCAGGACC CACCACTCAC GTCCAGAACC CAGGGGGCAC ACCTGGTCCA AGAGGTGGAG GCATTGGTCA
CTGGAGTCAC GAGGGTCAGG ACAGGCACTG AGAGGCTGAG GGAGTNTCGG TCCGGAGGGA GGCAGTCACG GGCTAGGGCT
GGGAGTCGTA GCCAGTNTGC AGGGCCTGGG AGCCCCAGGG CTGATGCCCT GGGCTGGCGT AGTACTCCAC CACCTGCCGT
GGCACCT

SEQ ID NO:2249: (Length of Sequence = 404 Nucleotides)
ATTTTTAATT TAGGTTTGTT TTATTTAAGT TTAATGTTAA TTCCATGCTG TGTTTCAGTA AGAACAATAC AGATTCTGTA
TCTGTGGCTC CAGTCAGATA TCCAGTAGTA CAAATTAGCT TCAAGTTACA CATACTGAAC AAAAGAGGTT GAGCGAGCGA
AGGAGGGGAG GAGTGAGGGG AAGGAGGTAG GGGGAGGGGG AAGGAGAAGA AACAAAAGNN TTGAACAGGC ATGCAGGCTT
TTCCTTACCA CCTTCAACGC TAACCTGCTT CAGTGGGAGA GTAAAGTAGG CAAGANTGAG CAGCCACNGG ATTGTTGAAC
TGTTACCCAG CACCATGCTT TTCAGCAACA TTTTCAGCGG AGTTNGGAA CATTTTTTTA CCAGCAAAAA CCATTACACC
GAGT

467

<u>SEQ ID NO:2250:</u> (Length of Sequence = 275 Nucleotides)
TGCCAAATAT ATATATCTGA ACATAGTGAA AAAGTAACAT TTAAAATCAG TCAAATTATT TTTAAAATTC CTTTGCTTAA
TAGCCATTAC TTACTCACCT TTTGTTTTTG TTTTTNCCTT CAACTACTAG AGTACTGTAC TTTTGCTTTC ATTCCTTCTA
TACATTCTGC CTTCATCCTT AAATTGTTCA ACTCGATAGT GCTAATATTG GTAGATAATC TACGCTAGCT GCTGTTTCTT
GTACAGAAGT TGGTTGATAT CGCTGATTCA CTTTT

<u>SEQ ID NO:2251:</u> (Length of Sequence = 426 Nucleotides)
GGAATAAGGA GATGAGAGCA TGCTCTGCCA ACTGGCTGGG ACCTGAATGT GCTAGGCAAG TNCCACTACA TCAGCTCAAG
AACATAAACA AAAATGTAAT TTAAAAAACA GATGGTTTAA AAAAATATCT GATAAAAATT ACCTATCCCT CTCCCTTGCT
GTGAAATAAT TTAAATAATT TATTCTAGAT GTAAAAATAA TAATACAAAA AAGTTTGTTC AAAGACACCT GTGTCCTGTT
TGTTAAGTGT GCAGTCTGGG TCCCTTGGGG TGGAGGGAGC TGGCCAAGGA ATGGCATTGT GCAGAGGCAT ACCGGGAAGC
TCTCTGGATG CAACCCACC TCTACCGCTT GGCAGTCAAT GACCTTGGGC ATGATGTTTC TTCACTTCTC TGAGGGCTAG
GGCTTTGATT CTGAACATGG GGGGCT

<u>SEQ ID NO:2252:</u> (Length of Sequence = 315 Nucleotides)
GAAAAGATAA ACAAAATTAA TAGACCATTA GTGAGATTAA CCAAGACAAC AGGAAAGAAG ATCTTAATAA GCTCAATTAG
CAATGAAATG NGAGCTACTA CAACTGATAC CACAGAAATA CAAAAGATCA TTCAAGGCTA CTATGAACAC CTTCACGTGC
ACAAACTAGA AAACATAGAG GAGATGGATA AATTCCTGGA ATTTTAAGAN TAATACAATG GACTTTGGGG AATCAGGAGA
AAGGGTAAGA GTGGGGTGAG GGATAAAAGA CTACACATTG CATACAGTGT ACACTTCTTG GGTGATGGGT GCGCC

<u>SEQ ID NO:2253:</u> (Length of Sequence = 335 Nucleotides)
AGATTTATTC TCATGTACAA AGCGGTCAGC CCACGGGACC ATATACGACA GTTGCACAGA GTCCTAGAAA AACGCATCTN
TCTAAAGGCA ACTCAGAAAG GTAAGGCAGG TGGACCCCCT CCCCCACCCC ACAACGCACA CAGAATGAAA CGGAGAAAAA
GAGAGAAGCC AGTGGCCGGG CTGACCCAAG AGTCCCGGCC CTATGGGGTC TCCCAAGCCC CAGGGCACAG GTGGATATGG
CCTTGAAGAG AGAGCCCTGC CAGGGCTNAG GCCAGGTCTC TCACTGGCTG CAGGAATNGG TAAGGGGCTC AGGCCAAGGG
GAACACTTCA GGGGG

<u>SEQ ID NO:2254:</u> (Length of Sequence = 380 Nucleotides)
GGAAGGCTCT GGAGAGGTTC CTGCAGGATT ACTTTGATGG CAATCTGAAG AGATACCTGA AGTCTGAACC TATCCCAGAG
AGCAATGATG GGCCTGTGAA GGTAGTGGTA GCAGAGAATT TTGATAAATA ATATACAATA ATCACATCCA CTTTCCACCA
CCTACACAAA AAACATTTCA TACAGACTGC AGTACAGTGA TTTTTTTTTA TGAACTAAAA GGTCAAAATT GTTTCATTTT
CTCTTCTGCA GATTCTAAGT AAAAAAATGAC AAAATATGCA TAGAGATGTT TGTAAACCAA AAATAAATGT CTAGGGCCCC
GAACCCATCT GAATGGGACC CCTCCTCTCA GCCAAGGGCA TTCCAAAATT AACCTGCAAA

<u>SEQ ID NO:2255:</u> (Length of Sequence = 399 Nucleotides)
ATATAAAAG TGTTTCTGTG ATTCTNCAGA GCCCAGGAGT CAGTGCTGGT GGTTGGAGGG ACCTGCCCCC ACTGGTTCAT
TTAACCCTCT GTCTCGGTGC CCTCAGAACC TCAGCCAGAA AGGCAAGGAG GAAATCAGAG CAGGAGCCTC ATACTCTTGG
TGATCTATTC ATTCTGTGAC CTCAGGGGTC ACATATAAGG TCAGTGTTTC TCGTCCCCGC CGGATCTGCA CTGCCAACTG
GGATTGGGTT CGAACAGCTT CATAAACATC TTCAGCATTT TGTACCATCT GCTCCCCAAT GGCCAAAATC ACATCACCAG
GNCGCAGACC CAGCCTGGTG TGCAGGGGAG CCCAGGATGA CTTTTTGGGA TGAGTACANT ATGCTGAACA TCGGGNAAG

<u>SEQ ID NO:2256:</u> (Length of Sequence = 371 Nucleotides)

468

TTTTTTTTTT TAACTGTAAA TGCTATTTTA TTTTAAACAT TTTTGTTTAC AAAAAAAAAA AAAATCAATG ATTGGTACCT
TTTTTACACT CTCAGATTCC TGAATATGGA CAGATCTTCA AAGGGAGGAA GGAGTTCTCA TATGAAATTT AAGATAGACT
GTCCTGAAGG TTGTGGGGTG GGGTTTTTTG TTGTGTTTTA ATTCGCTTTT GTTTTTAAGN CACAATAAAG CTAAAATGTC
AAGTCTCTGG GAGAGATCCC CTTAAAGTTT CAGTCAAGGA GCATATCAGA GCACAGACAA GGNGACCCCA GCCTGGTGCC
CGCCGGCCCG TCCCGGCTGC CCAGGNGTAT TTGGTAGCGC ATGGGTTGAG A

SEQ ID NO:2257:   (Length of Sequence = 372 Nucleotides)
AACTCTATGG CACTAATGTA TGATGGATTC ATTTCCAGAC TGTCGGCCAC GGAAGCACTT CTTCATGGCC TCTGCCCTGG
ACAGCAGCCT GTCCTCCGGG CTCCCCATGT TTTTACCAGC TTCTGCTGAG TTTCTACAAT CTTGAGCTCT GCTGAGAATT
CTTTTCCTTG AAATTCTTCT ACCTAAAGCC CCAGCCCCCA AAGAGCATG TCTCAGGAAC TCATTATGCC CTGAGTCAAC
AAGAACTTGT TGATAAATGG CTTAAAAGTT TTTACAAGAA GTAACTTCCC TTGGTAAGGA GTAAATAATA GCTCTGGGAA
TTTTCCAGAT AAAACTATTT CATTTCTCTG GTCAGTGGCC CCATGGGAG AG

SEQ ID NO:2258:   (Length of Sequence = 340 Nucleotides)
CTCAGCCTCC TGAGAACCTG GGATTGCAGC CTCCCGAGAA CCTGGGATTG CAGGCACCTG CTGCCATGCC CAGCGAAGAT
TTTGTATTTT TAGTGGAGAC GGGGTTTCAC CATGTTGGCC AGGCGGGTCT CAAACTCCTG ACCTCGTGAT CCACCCGCCT
TGGCCCCCCA AAGTGCTGGG ATTACAGGGG TGAGACACCA CGCTCGGCCT TTATATATAT TTTNAGAGAG GGGGTCTCAT
TTTNTTGCCC AGGCTGGTCT TGAACTCCTG GGCTCAAGCA ATCTTCCCGC CTCAGNCTCT CAAAGTGCTG GGGATTACAG
GCAATGAGCC NACCGTGNCC

SEQ ID NO:2259:   (Length of Sequence = 394 Nucleotides)
CCCCCCAGAT CCCACTGTTA GGAGAACGCC TCTGCTAACA TTTTCTCTAT CTTGTTATCC TCTGGGAATG AGACCCACTA
AAGGGCTAGA GTGTTGCTCA GTGTGAATTC CTCTTTCTCG ACTCCATCTT CGCGGTAGCT GGGACCGCCG TTCAGTCGCC
AATATGCAGC TCTTTGTCCG CGCCCAGGAG CTACACACCT TCGAGGTGAC CGGCCAGGAA ACGGTCGCCC AGATCAAGGC
TCATGTAGCC TCACTGGAGG GCATTGCCCC GGAAGATCAA GTCGTGCTCC TGGCAGGCGC GNCCCTGGGA GGATGAGGCC
ACTCTNGGCC AGTNCGGGGT GGAGGCCCTT ACTACCCTGG AAGTAGCAAG GCCGCATGCT TTNGAGGTAA AGTC

SEQ ID NO:2260:   (Length of Sequence = 359 Nucleotides)
TTTTTTTTTG AGATCTGAGA TTCCTTTAAT CAGAAGCACG TGCGTCCCAC AGTGTGCTCT TCAAGCCCCA AAGGGCACGC
CTCTAGGACT GCNTCCTTAG AGCGAGGCTC GGGCTCTTGG TAAAAAAGCA TTTGCTTGAT TTTATTTAAA CAATGGTGAA
TCTTCAAGGT GCCAGTCTAC ATGCCCAACA GTCCTCCAGG NTTCAAGGNC ACAGTCACCG TCACTCAGAG ACTGCCTCAT
TTNGCAAGAG AGAAAAACAG TGACCACCAC AGAGGGCAGG GAGTGACAAA GCTTGTAGGC TAATGCTGCA AAAGCCGCTA
GAAACTGGGG GCCACACACA AGNGCCCANC AGGTGCGCC

SEQ ID NO:2261:   (Length of Sequence = 360 Nucleotides)
TTTTTTTTTT GAGACAGAGT CTCGCTCTGT CGCCAGGTTG GAATGCAGTG GTGTGATCTC AGCTCACTGC AACCTCCGCC
TCCCGGGTCC AAGCAATTCC TCTGCCTCAG CCTCCTGAGT TGCTGGGACC ACAGGCGCAC GCACCACGCC AGGCTAATTT
TTGTATTTTT AGTAGAGACG GGGTGTCACC ATATTGGCCA GGCTGGTCTC TTCGAAATCT TAAATCCAAA CATTTCTATT
CTTCTAGATC CCTTGCTCAG GCGAATCCTT TCATCTTTNC GTNATACCTC ATCAGCATGT AAGTGTCTTG ACATCTCTCT
TCTCCTTCCC TATTAGCTCT CTACTCTCTN CANTTACACG

SEQ ID NO:2262:   (Length of Sequence = 348 Nucleotides)

469

CTGTCAAAAA TGTATTATAT CAATAATTTT ATCAGCAGCA TTTAAGAAAT AAGAAATCAT TAGACAATAG AAGACAAACA
TGGTAATGCA GTCAGGCCAG CACACAATAC ACCGTTTTCA TCACACACTG TAACCTGAAT CCCTGGCAAT TTCCTAGAGG
TATTAACATC ATACCTTATT AAGAATTATT GGCCCCNAGG AGTNGGGGGG TGGGGGGGTT GCAATCTGTC CAATCAACAT
CTGGCTCTTA CTTTCTCCCN GTAGTATTAC ATTTGTATAA TATTCTTATA GGAAACAACT CAACTCCATG TTTATAAAAG
CACCATACGG TNTTTCCATC CTGTACCA

SEQ ID NO:2263: (Length of Sequence = 352 Nucleotides)
CCCCAAAAGT TGACATGGTC AATGAAGAAA TAGGCAAACA GCAAAAAGTT GCAGTCATAC ACCAAATGAA AGAAGATCAA
AGCAAAATCC CTGAAGGAAT CCAAGTTGAC TCTGACGGGC TAATCACCAT AACAACTCCC ANTAAACTTG CCACGCTCAG
TGTTCGAGCC ATGCCCCTTC CAGAAGAAGT CACCCAGNTT CTGGAAGAAA ATAGTGANTT GATTCGTTCT ATGGAGCAGT
TGACATCCTC TTTGAATNAG GGTGAAAATA CTCACATGAT TCATCAGAAG ACCCNNGNGA AAATTNGGA ATTCAAAGGA
AAACTTTNAG CAACANCTAA CAGGGNGNTG AT

SEQ ID NO:2264: (Length of Sequence = 381 Nucleotides)
GCTTACAGTC TAGAACAAGC TTTTCCAGCC CACAGCCCAG GATGGCTTTG AATGTGGCCC AACACAAATT CATAAACTTT
CCTAAAACAT TATGAGATCT TTTTGTGATT TGTGTTTTAG TTCATCAGCT ATCATTAGTG TTAGTGTATT TTGTGTGTGG
CCCAAGATAA TTCTTCCAAT GTGGCCCAGG GAAGCAAAAA GATTGGACAC CCCTGGTCTA GAAGGAAAGG CAAATATTAA
ATAACCTCAG AAAGTGATAT TACAAATTGT GGTGAGTTAT AAACACACTA TCAGGTGTTA TAAAGGAAGT GAAGGAAGTG
GTGAGGAAAT TCTTATCAGG GNAGTGATAT TTNANTGAAG GGCCTTAGGG GATGAGTAGG G

SEQ ID NO:2265: (Length of Sequence = 301 Nucleotides)
CACTCTTCCT CCATCCTGCC TTTCCACAGC AGTCAGTCTG GTCCAAGCCA CCATCATCTG TCACCCAGAC TACCATAGCC
ATCTCCTAAC TGGTCCTCCC ACTTGCCGTC TTTATTCTGC ACACAGCAGC CTGAGTTCAT ACACACACGT GCATTCATTC
ATATTTTGCT TAAAACTGTT CAATGGCTTC CCATGGAACT TGGGAGTCTG GATATCTTCA CAAGTGTGTN GCATGGCCCA
GGACCAATCT GGACACCCCT NCCTGTTTGT NCATNCATGC CTTGCACCAC TNTTTGGCCT T

SEQ ID NO:2266: (Length of Sequence = 360 Nucleotides)
CGCCTGCATG CCCCACAACA ACACAACTTT ATTCCTCTCC CAAACATCTG TCAGGCCTGG CCTTCCTGAG CAGGAGCTGA
GCAGGAACAG GGCCTGGCTG CCTCTCCTCT GCCACAGCTC TGACCTGGGC AAGGCTGGAA GCTGGCATCG TAATGGATGG
GGGAGTGGGT GGAGGATCTG AGGGTCCCCT GGGTAGGTTC CGATACCTTG GACAGGTGGG CCTCATCCTG ACTTAGAACT
CGGGGAGGGG CCACTCTTCC TTCCCCTTCT TCCAGCAGCA GCTCCACCAC CCTCCACCTT CTGTCCTCGA CATGTGTNCC
AGAAAACCCA GCCATGAGGG ACCGCTNTGA GGAAGGGTCT

SEQ ID NO:2267: (Length of Sequence = 391 Nucleotides)
GATGGAGTCT CGCTCTGTCA CCCAGGCTGG AGTGCAGTGG CAAAATCTCG GCTCCGGACC CCCCCAAGAC ACATATGACC
CACCACCCCA TCTCTGACCA TGAGGCCACC CTGAGGTGCT GGGCCCTGGG CTTCTACCCT GCGGAGATCA CACTGACCTG
GCAGCGGGAT GGGGAGGACC AGACCCAGGA CACGGAGCTC GTGGAGACCA GGCCTGCAGG GGATGGAACC TTCCAGAAGT
GGGCGGCTGT GGTGGTGCCT TCTGGAGAGG AGCAGAGATA CACCTGCCAT GTGCAGCATG AGGGTCTNCC CAAGNCCCTC
ACCCTGAGAA TGGGAGCTTG TCTTCCCAGC CCACCATTCC CCATCGTGGG CATNATTGCT GGNCTGGTTC T

SEQ ID NO:2268: (Length of Sequence = 191 Nucleotides)

471

TATTACACAA CTGTTGTTAA ATTCTAGTAA GATAAATTGA TACTAAAGAA AACAAACCCA GAAAGATCAA GTGACTTGGN
TCACACAACA CAGGNATTAA GANGGAAATT AGTATTCTTT GTTGGAATAT TTTCCATTTG AATAGTTACA GGAAAATTTA
TTTGCATATT TTACAAATTA AATGTGTATT GGACATCATA GTGGGGAAAT

SEQ ID NO:2276: (Length of Sequence = 349 Nucleotides)
TCTCCAGGTC CTGGAGGCAA CCGCAGAAAC AGAACANTGC AAATGCCAGC ATTTCCGCAG ATAAGCGTGG CCCGCCAGCT
GCAAACACCC CTGACATGCA GCCGTCTGTT TAAAATCTGG TTGCCCGCTG CAGCCAGTGG AGCTCAGAGG GCTGCCTGGC
GGGTAAGGAC TCCAGGCACA CAGCAACAAG TGGCTGCCAC CTCAAATCCC ACGTGGAATA TGATGGGGTC CGAGCCAGCC
AGTAACTCCA NGAGGGCTGT AGTGTGTAAG TTCGGCCAGA GTTTNCAGAT ATAATANCAT TGGCCCCACG ACGTAGACCT
GTGGCGGCTC AGGGTTAAGA GACGGGAGC

SEQ ID NO:2277: (Length of Sequence = 182 Nucleotides)
CTTTATATAG ACTCTGGTTC TAGAAACTCG CCTGCAGCCG CTGGCTGGAC CAGCACACGC TGACGGGGCC GGACTATTTA
CAGGCCCATT GCGGGCTGTA CCTTGGCCAC CTNCCGGCAC GGTGCTCAGC TGTGACGNCA AAATAAGTTA GGGCCGGCCG
GGCGGGGCGG GGCGGGGACG GG

SEQ ID NO:2278: (Length of Sequence = 276 Nucleotides)
GTATTATTTT CCCCAAATGA AGCAAAGCAA GTACTGGGGC GGAGTCATCA GAAATACCTT GGGAGGTGGT GGGGAGGGGA
GTCGGGAGCA TCAGGGAAAA CCCATCTCAA CTCACGCCTC TCAGGGGTTG CGACTGGAAA NTCTTGCGTT TTCCATCACT
GGTGCAGAAA GAACTTCCCC AGGAATGGCC AGTGGCCTTT CGCCCGTAAC AAGGNCGCAC GCTCAGAGCA GTCTTCCTCC
TGGGCTGGGT GGACGCGGAG GCGCGAAGGA AAGCCT

SEQ ID NO:2279: (Length of Sequence = 193 Nucleotides)
TGCACCCATG GCCCCTCCPA GAGCCCCAGG GCCCCTGAGC AAGCAGGGCT CTGGCAGCAG CCAGCCCATG GAGGTGCAGG
AAGGCTATGG CTTTGG: . GGAGATGATC CCTACTCAAG TGCAGAGCCC CATGTGTCAG GTGTGAAACG GTCCCGCTCA
GGTGAGGGCG AGGTGA. .G CCTTATGCGC AAG

SEQ ID NO:2280: (Length of Sequence = 401 Nucleotides)
GTGATTTTCC TGTCTCCGTC TCCTGAGTAG CTGGGATTAC AGGTGCCAAC CACCACGCCC AGCTAATTTT TGTAGTTTTA
GTGGAGACGG TTTCGCCATG TTGGCCAGGC TGGTCTCGAA CTCCTGACCT CAGGTGATCC ATTCCCCTCG GTCTCCCAAA
GTGCTGGAAT TACAGGCATG ACCCATTGCG CCCGGCCCCA CTGTTTCCTT TCTAATCGAG TGAGAAAATG GTCAGTATTT
CTGTCAACAA AATTCATGAG GCTCTTTGTA CGCACAGGAC TTCAGGCCTT TCTCTCAACA ATCGCCAAAG CTGGAGGCAT
CCACAATGGA GGNAACAACT GGGGGTTTTG AAAAAACAGG GAATGTTTCC AGAATTNTTC TTCAAGAGTA TTTACATTTT
T

SEQ ID NO:2281: (Length of Sequence = 217 Nucleotides)
AGCACGGGGA TTGTCCAAGG GTCCTCCGGC GCCCAGGGCA GTGGTGGTGG CAGCACGAGT GCCCACTATG CAGTCAACAG
CCAGTTCACN ATGGGCGGCC CCGCCATCTC CATGGCGTCG CCCATGTCCA TCCGACCAA CACCATGCAC TACGGGAGCT
AGGGGCCCGN CCCGCGNAAC TNACAGCACC AGGAAACCAA ATGNATGTCC CTGCCCG

SEQ ID NO:2282: (Length of Sequence = 302 Nucleotides)

472

CCGATGGTGA AGTGGTAAGA GGTCGATGGC CTGGGAGTTC ACTTTATTAT GAAGTAGAAA TTCTGAGNCA CGACAGCACC
TCCCAGNTTT ACACTGTAAA GTATAAAGAT GGAACAGAGC TTGANTTGAA AGAGAATGAT ATTAAGNCTT TAACTTCCTT
TAGGCAAAGG AAAGGTGGCT CAACTTCCAG TTCCCCTTCC AGACGCCGAG GGAGTCGATC AAGGTCACGC TCCCGATCCC
CCGGTCGACC ACCTAAAAGT GCCCGCCGAT CTGCTTCTGC TTTCCCACCA GGGCGACATT AA

SEQ ID NO:2283:   (Length of Sequence = 314 Nucleotides)
GAAAAAGTGG AAGTCATCAC CGGGGAGGAG GCGGAGAGCA ATGTGTTACA GATGCAGTGC AAGCTGTTTG TTTTTGACAA
GACCTCACAG TCCTGGGTGG AGAGAGGCCG GGGGCTGCTC AGACTCAATG ACATGGCGTC CACCGATGAC GGCACACTAC
AGTCCCGACT AGTGATGCGG ACCCAGGGGA GCCTGCGACT GATCCTCAAC ACCAAGCTGT GGGCCCAGAT GCAGATCGAC
AAGGCCAGCG AGAAGGAGCA TTCGCATCAC AGCCATGGAC AACGAGGACC AGGGCGTGAA GGTCTTCCTG ATCT

SEQ ID NO:2284:   (Length of Sequence = 262 Nucleotides)
GGCGTGACAC ACGCGCCCGG CCTGTTGGAG CATTTTAAAA TCTGATTCCT TTCCCCCTGA AGTTTCCGTT CAACCCTTNN
CTGTGGTCAG GTTGATTNCT TTAATTGCTA AAACAAGTCA AAATTCAATA TCCATGGCAG CTGACAATTC AGACTTTGGC
ATATAAAGTA AAGGGTTTAT TTTTCCATTC CTCTGTAAAT GGTGTTGTNT TCACTTATTT ATAGTGCTAT GAAGCTGGTC
ACCTGGGAGA ATGGCATAAC TG

SEQ ID NO:2285:   (Length of Sequence = 193 Nucleotides)
GTGAGACACA GTCTTGCTCT GCTGCCCAGG CTGGAGGGCA GTGTCTCGAT CTTGACTCAC TGCAGCTGAT GCCCCCTGGG
TTCAAGCGNT TNTCCCACCT CAGCCTCCAA GCAGCTGGGA TTACAAACAT GNACCACCAC GGCTGGGTAA TTTTTGTGTC
TTTAGTAGAG ACGGGGNTTT GCCANGTTGG CCA

SEQ ID NO:2287:   (Length of Sequence = 342 Nucleotides)
AGGCTGGAGT GCAGTGGCGC AATCTTGGCT CGCTGCAAGA TCTGCCTCCC AGGTTCACAC CATTCTCCCG CCTCAGCCTC
CCAAGTGGCT GGGACCACAG GCACCCACCA CGCCTGGCTA ATTTTTTTTG TATTTTTAGT AGAGACGGGG TTTCACCATG
TTAGCCAGGA TGGTCTCAAT CTCCTGACCT TGTGATCCGC CCGCCTCGGC CTCCCAAAGT GCTGGGATTA CAGGCGTGAN
CACTTGCGCC CGGCCTTCAC CTGTTAGTTT TTCAAGAGGT GTTCGTCATG TCCACTGTGA TAGTTATTTT GTGTGTCAAA
CTGACTGGGC CACGGGGTGC CC

SEQ ID NO:2288:   (Length of Sequence = 343 Nucleotides)
TTTTTATTGT AATGAAATTT TAAAAGGCAG TTACATTAGT TACACATATA CACAACCGAC TTAATAACTG TTAGTCATAG
AGAACATTCA AGAAATACAA ATGATTTATC CACAGCACAG TTCACATCCA TAAGAAGAAA GAGAAATGGT TAAGTACTTA
AACTGTCCAC TGACACCTGC TTATGAAATC TTTTCCTTTC TTTCTTTTTT TAAAGGAAAC TGAGATTGTT AGATGAAGCA
AGCCGTCCTG CTCCCGCACA GCCTGTGAAA CCTCCATTTT GCCACTTTCA AGGTCAGTGC CCCACAGACC CTGGGCTGTT
GTTGACCATA ACACTAGCTT TGG

SEQ ID NO:2289:   (Length of Sequence = 160 Nucleotides)
CGGGCCGCAA AGCTCAGCTC CTGGCGGTCC AGGCCCTGGT GGCTCTTGAT GATCAGGTCC ACGGCGGCTG CCACACGNTC
CTCTAGGCCC TTCAGCGGCA NAGCGNCTCC AGCACCCTGT TGTGCTCCAT GTCCSTNAAC TGCTGCACGA AGAAGCATAT

SEQ ID NO:2290:   (Length of Sequence = 310 Nucleotides)

CCGACTCTAC TGAAAATACA AAATTAGCCG GGCGTGGTGA CGCATGCCTG TAATCCCAGC TACTCGGGAG GCTGAGGCAG
GAGAATTGCT TGAACCCGGG AGGTGGAGGT TTGCAGTGAT CACACCACTG CACTCTAGCC TGGGTGACAA GAGCAAAACT
CTGTCTCAAA AAAAAAAAAA AAAAGNTTAA ATGAGGTCAT GAGGGTGAGA CCCTGATCCA AGCTCATAAG TGTCCTTAGA
NGTGTCCTTA GAAGTGTCCT TAGGACACTT CTTTCTAAGT NTCCTAAGTT GGGGAGCTTG CTCTCCCCAA

SEQ ID NO:2291: (Length of Sequence = 270 Nucleotides)
CAAGACAGGG TCTCATTCTA TCTATTGCCC AGGCTGGAGT GCAGTGGTGC AATCTTGGCT CACTGCAGAC TCAACCTCCC
AGGNTCAAGT GATGGAATTC CCNCAGTTTG TCTTTGACAT TAAGANGACA CCACATATAG ACGGCTGTTT GTCAGTGATT
GCCCAGGNAT TCATGGATGC ATTTNCTCTC ACAGAGCAGC AACTAGGGAA GGAAGCACCA ACTAATAAGC TTCTCTATGC
CAAGGNTATC CCAACCTACA AAGAAGAAGT

SEQ ID NO:2292: (Length of Sequence = 332 Nucleotides)
CAGTTGTCCT ATATTCTCCA CCTTCCCTTG GTTTCATTTC TCTTCGCTTC CTGAATGAGA AGTGCCTGAG ATACCTTCAT
TTCTCTTGAA AGTATTGATC CAAGTTTAGA CAAATATCTC CCCTCTTGTT GAGAGAATTC CTTATATGTG AAAATACCAA
GACATTCTTG ATATTTAGCA GGCACTCAAA TATTTGTCTC CTCTTTTTTA GCATAATTAA GCCAGACTGA TGTTTGCATT
TGAGTATCAT CAGCATGAGT AACCNTTTTA ATCTCTCTTC CCTTAACTAC TTGTTCTACA CTAGAGTCTA GGGTCAGGGT
ACGTACAGTG AT

SEQ ID NO:2293: (Length of Sequence = 255 Nucleotides)
GCACCTGACT TATGTGAGTN TCAGGCTTCA ATGCCTGTNT TAGAGCTACT CCTTCACACA AAATAGTTCA GAACATAGAG
AAGGACCAAG GTTAATAAAT GATTTTNATC CCAAACACTA AACATGATTG ATGGGTAGAG GCTGCCCGAA GTACTGTGTA
AAGATGGAAT CTGAGATAGA AGAATGCTGT GGTCAATTAG TAATTCTTGC CCATGGAGGG ATTAGTGACA CATGCCTTGT
ATATTTGTCA TCTGT

SEQ ID NO:2294: (Length of Sequence = 236 Nucleotides)
GGCTTCAGAA GCTATTGGAA GATTCATATC AACTTACTAA TAATCAAGCA CTTTCATATT AAGACAATGT ATGATGTTTA
GTAAAATTGA TTTTNCCATA AAAGAAGTTT AAAATAAATT AGCTATTTCA AGAGNATCAT GGTTGTCAGC AAAATAGAAAT
GTTGTGCTTA ACTCAAATCA CAGTAATATT CTGTGGTAGT CAATTGATTT CTTTGAGCCN TTATTCTTTC ATCTGT

SEQ ID NO:2295: (Length of Sequence = 308 Nucleotides)
TTTTAATTTA ATCAGTAACT TTATTATAAC AAAACCTGTA TATTACCCAT TTAAACTCAT GTGTAACATT CAGTGATGTG
AGCTGTATTA AACCCAGGTA TTAGTGAAAA TTTGCATTGT AAAACCTGGT AACAGTAGAC ATCTATGGGT GGTCAGTAAT
TCAAGGACAC CTTTTATTTT AAACAATTTT ATATAATTCA TATCAATATG CAAAATTACC ATAAAAGATA CANGGATTAA
TACATATTTA CATTTTTAGA AATAGTTACT CTGAGGTTGA CAGCTGTCAC TTTTCTAAAT ATTTACAG

SEQ ID NO:2296: (Length of Sequence = 279 Nucleotides)
ACCCCTCCTG GAGGCTTTCC CCCTCCCCAG GGCTTCCCTC AGGGCTACGG TGCCCCGCCA CAGTTCAGTT TTGGCTACGG
GCCTCCACCT CCACCGCCAG ATCAGTTTGC CCCTCCGGGG GTNTCCTCCT CCACCAGCCA CTCCCGGGGC AGCACCTCTG
GCTTTCCCAC CGCCTCCGTC TCAGGCTGCC CCGGACATGA GCAAGCCCCC GANAGCTCAG CCAGANTTCC CCTATGGTCA
GTNTGCAGGT TACGGCCAGC ACTTGAGTGG CTTCCGACA

SEQ ID NO:2297: (Length of Sequence = 306 Nucleotides)

474

CTGAGAAGAA AGAGTGTGTT GTAAAGGACA ATGACTTTGA GCCCAGAGCC CTGAAAGCTA ATGGAGAAGT TATCATTGAA
ATTCCAACAA GAGCTTGTGA AGGACAAGAA AATGCTATCA AGTCCCTGGN GCATGTACAA TTTNAAGCAA CAATTGAATA
TTCCCGAAGA GGAGACCTTC ATGTCACACT TACTTCTGCT GCTGGAACTA GCACTGTGCT CTTGGCTGAA AGAGAACGGG
ATACATCTCC TAATGGCTTT AAGAATTGGG ACTTCATNGT CTGTTCACAC ATTGGGGAGA GAACCC

SEQ ID NO:2298: (Length of Sequence = 307 Nucleotides)
AGTACACCTA GTATCTTTAC AGTGACTATT AAGTATTTTT GAACTCAAAG TATATATTCA TCTTAAACTC CTGGAACTAT
GAACCCTCCC ATGTAATTTN CTGATGAATG AAAAGGAAAA CTTTCTTTCA AATAAGTGTC ATCTGTTGCA AAAGTATGTG
ATTTAAAAAC ACATGTAAAT ATAATCTTAG CTCTAATGTT TTCCTTTGGG AGTTTGGGAA AAAGCAGTTA CATTTCTCTG
TTGTCTGGTT TTTATCATTT GAAAATTGGA AGGATTCATT CTGGATTGCT GAGCTGCATC AGTAGGG

SEQ ID NO:2299: (Length of Sequence = 289
GTTTTTAATG CATTTTTTTT AAAGATTAAA GTAAAATGTC TCAATTGTAA AAAATACACA CCGGGCAAAT CCTTACCTGG
NTAATAAATA TCTACATCAC AGTACAATAA AATTNCTNCT CTATAAAATT TAAATATGGA TTATAGTCTA TCACTATCAA
AAGAAACACT ATGCTAATAT TTCCATATTA TTAAAATAAC AGGAAAAATT ACGNGCTTAT TTTAGAACCT GATGCCATAG
CCGTTGGAAA GGGCAAAGAG ATTCAAATGT CGATCATCAC TCTCCATTT

SEQ ID NO:2300: (Length of Sequence = 371 Nucleotides)
CACCCATTGA AAAAGCAGCC GCCCTCCTTC CCAGGAGCTG CTGAAGAGAG AGCCTGCCAG AGCCTTGCCA GCAGGGACAG
CCTCTTAGAT ACCAGCAGCG TCTCAGAACC CAACGTGTCC TTTGTCTCNC ACTGTGCGGA CAGCAACAGT GGTGACATAG
CTGTNATCGN GGAGGTCCGG ATGGAAAACC CAAAGGAGAG TAGCAGTTCC CTGAAGACTG GGAGGCACAG CTNAGGCCAA
GACAAACCAC ACGNAACTTA CCGACTGCTG AAACGCAGGA NTCTGATCAT AGAAGCTGTC ACCAATCTTC GCTTAATCGA
GAGTTTATTC ACGGTTCAGA AGATGATCAT GGATCAGGAG AAGCAGGAAG G

SEQ ID NO:2301: (Length of Sequence = 287 Nucleotides)
ACTTGGTGTT GGGATTTGTT GTGAGGTTTG CTGACACCTT GACCATTTTT CACTGGCTGG AAATGAAAGG AACTTCCCAC
TTGCTCTTTG AAGGCAATTC CATTCTCTCC AGGGTCCTTA TTTCCTTCCC ATATTCTCTC ACACTCCCAA ACTTCTGAAG
AAGGGAGCAA ACTTTGGCCA CGAGGAAGGA GTNGAGCTGC CTCTGTACTT GTCACTGCAC CTGCACTGGT TGAATCCACC
TTTCCTGGGT CACGCCGCTG TGCTGGGTGG TCACAGCCTA GGACCCC

SEQ ID NO:2302: (Length of Sequence = 358 Nucleotides)
GGAACACAGG ATCCAAACTT GTCGGGGAAC TCGGAGAGAA GATCATCGTT GGCGCGGTCC TTGGTGGGCC CAAGGATGAT
GATGGGGCGA GCATAGTGCA CTTCCATCTG CGTCACTGTC TCGTAGCTCA GAACCGAGTC TTCTCGACCC TGCGATCCAG
AGCTGGAGCC CCAGTCCTTG GCCTTTAACC TTGACCACTC TCGTCGCTCA ACCCGCCGTT TGCTGGGGAT GAACCCAATG
TCGTCGGTCT CACTGTCAGA GTGGACCCGC CGTGNCTGCC ACCACTCCTC ATCACTAGCA TCGATGACAT GCAGCACATN
CCCAAAGCGG AAGTTCAAGG GCCTGGCTCA GGAAGCCG

SEQ ID NO:2303: (Length of Sequence = 403 Nucleotides)
GTCAGGGGCT CCAGATCATC CTCCTCCAAG GGCCCCGCAG GCGCCTCCTT GGCCTCTGGC TCCTGCTTGC CGCTGGCCTC
CAAGATGGTC ATGATGGAGT TAGGGATGTN TGCTTGCTGG TGGGGGGTGA AGGACGGGAC ATGGGCCAGC AGGGGCTCCC
GGAGCTCTGG GCACTTNTCA AAGACGGCTC CCAGCTGCTG GGGCGGCANT GCAGGATGAC CTGGAAGCTC TGGGGCTTTG
TGCGCTGGCA GCACTTGATG AAGCCCTCCC ACACCTTGGG GTACTTCCAC AACTGCTTCA TGATGAGGCG GGACAGGATG

475

TTCATGACGG AAGCCCCCCA GGCGGGGGTA CATGGTCANG GACCTGGATG ACGGTCCTCA TGAGCAACAT GGGCAAGGGG
GCT

SEQ ID NO:2304: (Length of Sequence = 376 Nucleotides)
ATCTTGCTAT GTTGCCCAGG CTGGTCTTGA ACTCCTATTC TCAAGAGAGC CTCCTGCCTC AGCCTTGTAA AGCACTGGGA
TTATAGGCAT GAACCACCGC ACCCAGCCAA GATTGCCATT TTGTATGATG AGACTGGAAG GACCCCATTG TTTCAGGATT
TTGCTACAAT ATACAAAAAA CAATCTGTGA GACAGTGGCT GGGCTTTTTT CCTGCCTGAT TAGTTCAGTG CACATACAAC
TTGGACCAGA GGATCTGGGT TTGAATCCCA TCTCTGATAC TTCCCAAACT GAGCTGTTTT CCTTATTTGT AAAGACTAAG
ATCGCGTATG TCAAAGAGCT CTGTAAACTC TCAACACATA CAAAGTACTA CTGCTG

SEQ ID NO:2305: (Length of Sequence = 354 Nucleotides)
CTGCCCAGCC TGCTCCTGGC CCCCTGGAAG CCTCCCCACA GCTGGTAATC TGGACTTAAG GATTGCTGGG CCACCGCCTC
TCTGCCTACC ACCATTCCAT ATTTAAGTGG AGCCCCTACG TAGAAAGGCC CCGGGGCTTT ATTTTAGTCT CCTTTTCAGG
GATGTCGTGG GCGGGGGAGG GGGTTCTTGG TGCTACAGCC CTCTCCCCAC CCCTAAAGGG ACGCCGACGC TGTTTGCTGC
CTTCACCACA TATTAGTGCT TGACCCTGGC AGGGGACCCC ATGGAAAAGA TGGGGAAGAG CAAAATACAT GGAGACGACG
CACCCTNCAG GGATGCTCGC TTGGGATTCC CACG

SEQ ID NO:2306: (Length of Sequence = 345 Nucleotides)
CCAAGATCCT AAGTAATTCC AAATGCCTTA GATATCAATG AAAGCTACAC ACCATTGAGA TGGGCAAAAT TCTTTCTCTA
CAAAGGGAGT AATCAAGTAA ATACCTGTCC TCTTTCAATG GACTGTTGCC TATTGAGCAT TGTGGATGAT GTGTTTTCAG
ATTTCCAGGT GAAGTTCTGA CCCTACCTGT TTGGCCAAAG ACGTAAATTG AGAGGAAAGG CCTTGGTCTT CCTGATCAAC
CAGCATTTAA CGAACAGTGG CTTAATGCAG ATCACTCAAG AGGNAGCATA GCAATGTAAA AGGAATATAA GTAGGTGTTG
GATGCCTTTT TCCTAGACCA GGAAT

SEQ ID NO:2307: (Length of Sequence = 337 Nucleotides)
AACAGAATGT AAAAATACGC AAGTCAAAAC CTGGTAGAAC TGCATGGAGA AACAAATGGA TTCAATATTA TNAGTCGGGA
AATTCAACGC CCTCCTATCG AAAATGGACA GATCCAGCAG GCAGAAAATT AGTAAGGACA TTGTTGAGCT CTGCAATACC
ATCAATCAAC TGGATATAAT GGACATCTAT AGACTACTTC AACAACAGCA GAAGATACAT TCTTCTCAAG CTCACATGGA
ACATTCACAA AGATAGACCA CACGCAGGCC CATAAAGCAC ACCTTAACAA ATTTAAAATA ATATAAATCA TACAGTGTGC
TCTCAAACCC NCAGTGG

SEQ ID NO:2308: (Length of Sequence = 216 Nucleotides)
GAGGAGTAAA CTNTTTTCTG AGAAGCATGC TTAGGTTGTG GGACAGGAAG TGGTAAAGGC AATGCATCGT CCACAGAGGT
GGATGAAGCA GTNACAAAGG AATGATAATT TNANCTGCTG GTGGCATCTN CACTGCTGGA GTGTATGGCA GCAATCATCT
TACTCTCCAT CATCCTGGTG GGGGGCAGTN GTGCAGGAAA GCCACAGGGA TTCGCA

SEQ ID NO:2309: (Length of Sequence = 289 Nucleotides)
GGGGCTATGA AAATACAAAA AACATTAGCA CATTCATAGT ATGTATGTGT CTACAGGCAT TTNCCCAGCC CTATGAGAGT
NCTGCAATTT GAGAAGTACT AAAATGTATT GTTTGGTGAC AAGAACTGCA ATAAAAAGAT AAATGATTTN CTGAATCTTG
TGGCAAAGCA GTCTATTTCC ACTGCAATTT CTGCTACTAT TACCTAAAA ATTGCTGAGA CAAAGACAA CCTCTGAAT
ATNCTGCTGA GATCTAATGC AAAGTCCTCT CAGANGCTTC ACTACACAT

476

SEQ ID NO:2310: (Length of Sequence = 359 Nucleotides)
CTGNGGGCTG CCTCTCGTTG GTCAAATCCA ACCAAAAGCT AAGAGCTGGA GAGCTTGGGT GGTGCATCCA AGGAGGCTTG
CTTCCTGGGG CACAGAAGGG AGAGTGGAGA AGGATGGAAA GTGGCTCTAG GGGAGGAAAT GGAGAACATC CAGAACTTTA
TGTCACCTCT GGTGCTTGAA GGCCTTTCTC CAGGGAGACA AAAAGTTTGT NTTGGCTAAA GCTCCCTGGT TGCTCAGGAG
CCAAGGGTCA CATAATGTGC CAATGGGGGT TTTTGCCTCT GAAAGCCTCT GAGGTATAAT TACTTGCAAT GNNAACATCC
CTTTTCTCTC TCTTCCTCTG CCCACCTTCC ATGCCAAGG

SEQ ID NO:2311: (Length of Sequence = 324 Nucleotides)
GTTNGGGCC GGCCTGGGCA ACATAGACAC CATCTCTTTA AACAAACAAA CATCATTAGT TTCTACATTC TACAAGGTGA
AAGACTAATT AGAAGTGAAA AATACCACTG AAATGTTGGT GTACAAATGG CAGCATAATT TGATTTACAC TAGATTTTAC
ACATTTGTGT CTATTTCAAA TAGGTACTTT TACATTTTCC TTAACTGCAT CTGACACAGA GTGAATCACA GATATATGTT
GGTGTCGAAA GCAGAGGTTA CTATTATTAA NCGAAAATTT TTGTGGTTTT GCAGTCATCA TATCTAATGT GGTTACAGAT
TGTG

SEQ ID NO:2312: (Length of Sequence = 362 Nucleotides)
GNAGTTTATA AAGCTTTATT AAACATTTCA AACAGCTGTG CAACGAACAC ACCAAATAAA AGCTCTAGAA TAGCAGTCCA
GACGTTTCAC AAGTATGGCC TCACAGTCCC ATTCCCTAGA TGGACTGCCT CCAGTNCTGT NCTCTGCCTG GCCCATCTCT
CTTTCCCCTC AGGCAAGAGA GAGATGGATG GNTCAGACTG AAAGGACAGG CATGCTGATC TCCAGCAGGC AGGGGCCAGG
AGAAAGTCTC GTTTGCCAAC ACTTGTTACT GAAGCGCAGA AAAAGCAGCA AGTGACAGTC ACAAAGTCTT CCTGGGGTAT
TCTTCATAAC GTACAGTCTA TATGCGCAGG AACGAGGAAG CT

SEQ ID NO:2313: (Length of Sequence = 449 Nucleotides)
TGTAATTTTT AAATTAAGAC TGCCTTAGTG AGAAAATTTC AGCAGGTGAG TTAAGGGCAC GAGGAAAGGG CCTTTGTGCA
GAAGTAATGA CATAGGCAAA TTGTCAAAGG AGAGGTTCCC TGGTGTATTT NTAGAAGAAA GTAGACCCAT GTNTCTGAAC
CCAGCACACA GTTCACTTAT GGTGGTTTTG AAATCTGCCC TGGAATTTNC ATGCATCTTT TAAATTTTTG GTTTATTTTT
NCAAGAAATA AATGAAGTCT TTATTTTTNC AATGAGGGCA ATGTTTATTA AGAACAGCAC ATAAGGTAGA AAAGAAGGTT
GGTTTCTAAT CTTGGTTCAT CTCCCCCACT GATCTTGAGT TTTAAAAGCA TAGAGAGCAC GATCCTTCTG TGGGGTCTCC
ACTGTCAGAG AGCCTGTNCA GATGAGCAGT CACACTGTTA CTCCACAGC

SEQ ID NO:2314: (Length of Sequence = 316 Nucleotides)
CGAGGCAAAC ACAAAGGGCT CCTTCTGCTT CTCTGACCCC ACCTGCAGCA GGTAGTGGAT AACAGCCCCT ATGGCCTCCT
TCATGACGCT CACGAGCTGC ACCTTCTGTG GCTCCTTAAG CAGTGACTGC TCACAGCGAG TGCATTCCTG GNTCCCCAAC
TCCATGAGGG CATAGCAGGC GGTCACCACA TCCTCTTTCA CCTCCGTGCC CGTNTCCTCC AGTGCCAGCC GCACTTCCAC
GNACGNCAGA TTCACCAGCA GGGCCAGGAA CTTGCTCCCG GAGCTGCCCG CCGGGATCCA GTCGGAGCCG CAGGTG

SEQ ID NO:2315: (Length of Sequence = 286 Nucleotides)
ATTTTTATGT GTAGACAGGC TGTGGGTTCC CCTCACTTAA ATTGAAGCTC TGTTGAACTT GAGACACTTA AGANTCTTGC
AAGTNTGAAA AGTGGAGTGA AACAAAACCA TTTCTAAAAC GAAAATGTGT AACTNCNTTC AGTTTTACAC AGTGNAGAAA
TAAGTATTAA ACAAGTTAGT CTCAAACGGT TATATCTTAA GGTCATTTTA TTCCTGTTAT CATTAACTAG ACATATCTTG
GTTTAGAGAG CAGCACACAA GACATTGTGT ACTNTTTAAT AGCTAA

SEQ ID NO:2316: (Length of Sequence = 414 Nucleotides)

477

AATCATAGCT TACTGTGGCC TCGATGTCCT GAGCTCAGGC GATCCTCTCC TTATAGCCTC CAGAGTAGCT GGGACTATAG
GTGCGTGCCA CCACACCCTG CTAATTTNAT GTTTTGAAGA GACCGGGTCT CACTTTGTTG CCCAGGCTGG TGTCAGACTC
CTGGGCTCAA GCTAAATCAC CCACCTTGGC TTCCCAAAGT GTCGGGATTA CAGGTGTGAG CCACTGCGCC CAGCTCTGAT
TTTTGTATTT CTTACTTAAG GCGACATACT TAGTAGCTGT GCGTCTTGGG GCAGATACCT CCCAAAGCCC CAGTTCTGTC
ATCTATAAAT AATGTAACAA CAGGGCCCCG CTCGCAGGGT TGCTGTGTGC ACATATGTGT GTGTACGTAC CCATGTGCCT
NTACGAGAAG GGCT

SEQ ID NO:2317:   (Length of Sequence = 166 Nucleotides)
GCAGTGACTA TTATTAACAT TACAGTACCA AGCATCCGCA AGAGACAGTC ATTTGTNATT TTTNATCAAG AAATAGGGCT
GTTTTATACT GTTATTGACA TCAACTTTTT CCCAGTGCAT TTTTCAAAAA TATTAATAAG TTCATTCCTT TGTGCTTTTA
ACTTCC

SEQ ID NO:2318:   (Length of Sequence = 374 Nucleotides)
TTTATTTTAC ACTTACAAAA GAAATCGCCC ACCCCTTTGC CCCATTCCCC CAAAACAGTC TCTTTTTACA AACATTTAAA
AATTAAAACC AAATGAAGAT AGACAAGTTA ATTTCAGTAC AATTATTTTN CAGTGTAGCT GTCATAATTA GAGTTTAAAT
TTCCTACAAG TGACCAATGT CCAAGTGACT TATAGGGAAA TCCTGATTAT CGGCCAAAGG AAATTCAATA TTACAAGTTA
GCAAATTCTT AGTACAAAAA TAGTCCGTGT GTTGGAACAG CTTTTCCTTG TTACATAGGT CTTAGGTCAG TCTGCTGTNA
ATACCTTAAC GNTTCCGGAT TCTNNTCTCA CAAATG C AATCGTCACT GCTG

SEQ ID NO:2319:   (Length of Sequence = ,80 Nucleotides)
CATCTTAGTT CATGGTAATC TCCTTGGCAG CACTTATTGT CTTTGTGTGA GAGCAAATGA TAGAGTCATC CATTCAAGTT
AATTAAGAGC ATCTGCATTG CAAAACTGGT CACTAAATTG CTCGCCAAAT TTGAGGCTTT TTTCCTGCCA ACACAAATTA
ATTTTTTAAG TAGCAGCATT TTCAGGAGAG ACCAAATAAA GAAAGCAACA ATAAAGTTGC CTGTCTAGTG AGATGTCCCC
AAACTATCAA CTTTAAACAT ACCTTTGCCT TTNATAGTAG TTCTTCACAC AAACTGCCTT AATCAAAATG CGTGTCTCTT
GCTCTGTCAT TTTATGTTTT GGCTCTTTAG CAACCTAATT GTATGGTTAG ACAGATTCCT

SEQ ID NO:2320:   (Length of Sequence = 348 Nucleotides)
GGAGTTCTCT TGTCCACGGA GAGCAGTGTT GCAGTGTATG GAATGCTAAA TCTTACCCCA AAGGGCAAGC AGGCTCCAGG
TGGCCATGAG CTGAGTTGTG ACTTCTGGGA ACTAATTGGG TTGGCCCCTG CTGGAGGAGC TGACAACCTG ATCAATGAGG
AGTCTGACGT TGATGTCCAG CTCAACAACA GACACATGAT GATCCNAGGA GAAAACATGT CCAAAATCCT AAAAGCACGA
TCCATGGTCA CCAGGTGCTT TAGAGATCAC TTCTTTNATA GGGGGGTACT ATGAAGTTAC TTCCTCCAAC ATTAGTGCAA
ACACAAAGTA NGAAGGTGGT GCCACACT

SEQ ID NO:2321:   (Length of Sequence = 330 Nucleotides)
ATCTAGACTT TNAGTTCCCT GCATCTGCCA CCGTAGTTTC TAGCAGGAGT AGTGGGGGGA GTAATACAGA TTCTNCCCTA
GAAGGGGACA CTGGTAACAT GTCCCACTCT TGGATTAGCA GGGGTGGGTC CAGGAAGATG ATATTTNCNT CTTTTGCCCA
CCCCCCTGGC ATTCAGCTGG ACCCAACTAG GCCATCATGA GTGGCTTCTC CCTGTCATCC CCAGGGGTCA TAGGATATCT
ACACCGCCTT TNTGACCCCA CCCTGCACTC CCATCCTTTC CTCTCTCCCC GGTTCATGCC CTGCACTACA TAGCACAGCC
GGGATGCTTN

SEQ ID NO:2322:   (Length of Sequence = 352 Nucleotides)

478

TTGACAAGTA AGTGTATATA TTTAAGGTGT ACAATGTGAT GCTTTGATAC ATACAGTGTG AAATGATTAC CACAGTTAGG
TTTAATAATT AACATATCCA TCATCTCACA TAGGTATGAT TTCTTATGTG TGTGGCGAGA ATCCTGAAAA TCAACTCTGA
GCACATTTCA AGTGTACAAT ACAGTATTTA TGATAGTCAC CATGCTGTTA ATCAGATTGC CTACCTTGGT TAAAGTGCAG
ACTCAGGTGA AGGTCTGGAT GGAGGATCAT ACTTTAATTG ATTTAGACTC TAAAATAAAT GTATATAGTT ATTTTTGCTA
ACCTAANGAA CCTACTCATA AATGGGCTAG TG

SEQ ID NO:2323: (Length of Sequence = 316 Nucleotides)
GAGACAGAGT CTCTCTCTGT CGCCCGGGCT GGAGTGCAGT GGCACAACTC AGCTCACTGC AACCTCCGCC TCCCAGATGT
CCAAGTGATC AAGGGGTTTC ATTTGCTCTT GGGGGATTAG GTATCATTTG GGGAGGAAGC ATGTGTTCTG TGAGGTTGTT
CGGCTATGTC CAAGTGTCGT TTACTAATAG TGGAGACGGG GTTTCACCAT GTTGGCCAGG CAGGACCTCA GGTGATCTGC
CCACCTCAGC CTCCCGAAGT GCTGGGATTA CAGGCATGAG TCACCACACC CGGCTTCATT TATTTTCTTA TCCATG

SEQ ID NO:2324: (Length of Sequence = 300 Nucleotides)
GGGGACAGGA GGTGACCTCG CGAGCAGACG CGCGCNCCAN ACAAGCAAGC CCGCCCCGGC CTCTCGGGAG CCGTGGGGCA
GAGGCTGCGG ANCCCAGGAG GGCCGGAGCC CTCATGANTT CANTNACCTG CTTCTCCCCC TNTAGGTCTA TCAGCCACAG
TNTCTGCAAG TTTCCAAGAG CAGCAGAAAA TGAACACATT NCAGGGGCCA GTTTCATTCA AAGATGTGGC TGTGGATTTC
ACCCAGGNGG AGTGGCAGCA ACTGGACCCT GATGAGAAGA TAGCATACGG GGATGTGATG

SEQ ID NO:2325: (Length of Sequence = 303 Nucleotides)
CTGTCTCAAA TAATAATGAT AATATTTNCT TATGCTTACT TTACTGTAAG ATTACAGTAT ACATTACAAC ATATGCGTTT
ATTGACTGTT TATGTTATTG ATAAGGCTTC TAGTCAACAG TAGGTTACTA GTAATTAAGT TTTTGAGGAG TCAAAAGTTA
TGTGTGGATT TTCAACTGTG GACTTTGGTG CCTCTAACCC TGTGTTGTTC AGGGGTCAAC TGTGTATTCT TTCTGTGGNA
ACATTTTTAG ATGTTATAGC CTTTAGACAT TAGAAATGGA AATTTAGTTG AACTCGNGTG TTC

SEQ ID NO:2326: (Length of Sequence = 348 Nucleotides)
GTTGGTCTCG TGTGGCACAT GACACAATCT CTCCCGTCCC TGGAGGCCAG CTCCCCCGTG GCCAACCTCA GGCCTCCCAT
GGCATCTCAG GGCTCCTCCA GCCAGACTGG CGCCATCCAA TTAACCTGAT GGTGGCTGAG CAGCTCAGCT CTGTGCCAGC
CCCTGCAGGA GGCAGATCAT GTTGTCCAGG CCCCAGAGGT AGCCGTCCTC ACGGTTGCCN TCAGCCCAGG GCAGCCTGTG
GCTGAGCGTC TGGTGGTCGG GCAAGGCCAC CGTCTTGCCG AAGTCTATCA TCCAGACCTT GGCCAGGCCG GTGTGGTCGT
GCACGAAGAG GAGGGAGCTT CCTACCAC

SEQ ID NO:2327: (Length of Sequence = 392 Nucleotides)
AGCTGTTTTT TCCTAGCTGC CAAGACTGTT GAGGAAGATG AGAGAATTCC AGTACTAAAG GTATTGGCAA GAGACAGTTT
CTGTGGATGT TCCTCATCTG AAATTTTGAG AATGGAGAGA ATTATTCTGG ATAAG/TGAA TTGGGATCTT CACACAGCCA
CACCATTGGA TTTTCTTCAT ATTTTCCATG CCATTGCAGT GTCAACTAGG CCTCAGTTAC TTTTCAGTTT GCCCAAATTG
AGCCCATCTC AACATTTGGC AGTCCTTACC ANGCAACTAC TTCACTGTAT GGCCTGCAAC CAACTTCTGC AATTCAGAGG
ATCCATGCTT GCTCTGGCCA TGGTTAGTCT GGAAATGGAG GAAACTCATT CCTGATTGGC TTTCTCTTAC AA

SEQ ID NO:2328: (Length of Sequence = 256 Nucleotides)
ACGAGCACAC TCTTCACAGT GGGGCGGAAC ATCAGAAAAT GGGAGCCTTC TTCTAATGGC TGTNCTTTTG TGTTTGGCAAA
AAAAAAAAAC AAATCCTCCA AACCACACCG GATGGTTGTA AAAAGCTGCA ACGGAACCTT TGGCACCNGA TGAGAAGAGA

479

GGCCTTTTTAA TGCCATAGCT AGTGATGATT CANTCAAAGC ATCAGTCTAA GGAAGGATGA TGGGGGAAGG GACCNNAGAT
CACAGNCCTT CTCCTT

SEQ ID NO:2329:   (Length of Sequence = 383 Nucleotides)
AGTAGAGACA GCATTTCATT ATGTTGGCCA GGCTGGTCTC GAACTCCTCA CCTCAAGTGA TCTGCCTGCC TCGGCCTCCC
AAAGTGCGGG GATTACAGGC GTGAGCACNC ATGCCTGGCC TTTTTTTTTT TTTTTTTTAA CGAAGTTATT TTTCTAGAGC
ATTCATAGTT TGTTTTTATA CAGTTAAGGT TCTCATCCAT CTGGATTTTT TGGTAAGTGT GGGGAGAATA AAATGAGGAG
CCNCTGTTTT TTTCTCCAAA TGGCATGTAT TGTCCCAACA CAATTTATTG AATCAATAAT TCATCTCTCC CATACGAATT
TAAACTATTG AACTTTCACA TCAAAATTTT GGAACTACAA AGTAGGTTTA ACAAGGTGAG AAC

SEQ ID NO:2330:   (Length of Sequence = 392 Nucleotides)
CGAAACGNTC TCAACCTATT CTCAAACTTT AAATGGGTAA GAAGCCCACT GGTCAGCATG GCAAAGCCCC AGCTCTAATA
AAAAATGCAA AAAATTGGCT GGGAGTGGAG GCGGGCGCCT GTAATCCCAG CTACTTGGAA GGTTGAGCTG GGAGAGTTGC
TTGAGTCTGG GAGGCAGAGG TTGCAGTGAG CCGAGATCAC ACCACTGCAC TCCACCTTGA GCAACAGACT GAGACTCTGT
CTCAAAAAAA AAAAAAAANT TATGCAAAGT GTCTTTTCCA ACAAAAGTGT AATGAAGCTA GAAGTCAATA ACAGGAAAAC
CTGGGNGAAT TTGCAAGTAA GTGAAAGTTA AACAACATTC TTAACCAGTG GCTCAAAGGA GGAAATGACT GG

SEQ ID NO:2331:   (Length of Sequence = 284 Nucleotides)
AAGAAAAGTA AATTCATCTT GCTCACAGTC CTTTCTGGAA GAGTTTAGAA AGCAAAGAAT TCACCGACTC AGCAGGAAGC
AGAACGAGCT GTTCCTTCTT TTGACACGCA CAAGCTAATC CCCTAGAGAG TGGGGATGTG GGAAACGGAG GGTAATTAAT
TCTTTGGTCA CTGGTTCACT GCTGAATAGC CTTGGTCAGT TTTGGCTCTC TCCTATTTTA GGGGGAAAAA TATTTTNGTT
TCTTTTTTTT AAAAAATAAA ATGTTCGCAC AATGGGAGAA AATT

SEQ ID NO:2332:   (Length of Sequence = 349 Nucleotides)
ATCTTAAAAA GATTTTTTGT ATTINCTTTT GAGACTGGGT CTCAGTCTGT TGCCCAGGCT GGAGTGTAGC AGCCTGATCA
TGGCTCAGTG CAGCCTCTAC CTCCCCGGGC TCAGGTGATC CTCCCCCTTC AGCCTCCTGA GTAGCTGGGA CTACAGAGGT
GTGGCACCAT GCCCGGCTAA TTTTTGTATT TTTTGTGGAG ATGGGGTTTT GCCATGTTGC CCAGGCTAGT CTTGAACTCC
TGGATGTGAG CCACTGCGTC TGGCCTATTA TTTTAAATAT AGTTCTCTTT ACTGCCAGTA GCTTTCATAT AACCCTAGCG
ACTAGATTTA GTCACCACTG CTTAATTCC

SEQ ID NO:2333:   (Length of Sequence = 353 Nucleotides)
CCACCTCTCC GTTCTCTGCT TCTNAACCAC AGCCGCATCC TATTTGCAGC CCTCAAGATT AAGGATGAAA ATTTGACTTT
TTAATTTTAT TATTCTTGTT CTTCCTTCCT ACTTCATTAG AATCATGTTA TTGGCCTAAA ATACTGTATG TAAAGGATGC
TCTGGGGCCC ATCTGGAAGC CTGCATTCTC TGGGGATATA ATTACGCTAA GCAATTTTTC ACCAGGGACA GCATGACTTA
GCTTCTACCT GGGCATCCTC TGGCAACACA GCCCTCAGTT CTTCCAAAGG GATTGGCTGC TGTCCCTTCA GGCCTTCTTC
TTGNGTGTGT GTGTGTGTGT GTGTGTGTGA TTC

SEQ ID NO:2334:   (Length of Sequence = 279 Nucleotides)
GCGCCTTCTA CNAGCTGCTG CTGCCGCNCT CATNCTGGTG GCGATGCTGC AGCTGCTCTA CCTGTCGCTG CTGTCCGGAC
TGCACGGGCA GGAGGAGCAA GACCAATATT TTAAGTTCTT TCCCCCGTCC CCACGGTCCG TGGACAAGCT CAAGGCGCAG
TCCGNACCGC GCTGGCCTCT GGAGGCGTCC TNGACGCTAG CGGCGATTAC CGCNTCTACA GGGGCCTGCT GAAGACCACC
ATNGACCCCA ACNATGTGAT CCTGGCCACG NACGCCAGC

480

SEQ ID NO:2335: (Length of Sequence = 386 Nucleotides)
GCCTTTTTGT CATGGTAGCA AAGTGGCTGC TGTGGCTCCA GGCATCACAC CCTCAATCAA GGTAGGAAGA AGAGGCCCAG
GGAGGTGTTA GCCATGCCTG TTTCTTTTAT TGGAAAAGCT TTCCCAGAAG CCCAGGTAGA CTTCCTCTTC AATTTCATTG
GCCACACCTG ATCACATAGC CATCCTAAGC TGCAAAGGAG ACTGGAACAG TGAAAATCTG GATTTACAGC CTCCACAGTT
GGAGTGGCTG GAGATACAGA GTTGGGACGA CCCCTGAAAA GTGAACCAAG GTCGTCTGCA CGGCTGCCCT GGAGGGCGTG
GTGCTTGAGG TCCCTTCTAC CTCTGGGGCT TCATGGAATG ACTTGTTGCC TCCATGGAGC ACCTCT

SEQ ID NO:2336: (Length of Sequence = 258 Nucleotides)
CCCTAGCAAA CCACTGATGA CCGCCTGGNA GGGGCCAGCC TGTCGGTGCT CTGGGCCTTG CAGCTNTTTC TNTAGGGTTA
GCGGTGGTGC CGGGGTCACT TTCTGAATCT TTTTTTTTTT TTTTCAAAAA GGAAAGTTTT TAATGGAAAG TTGAGCCAGA
ACTAAACCAG GGAGCTGTCT GAAATCATAG CACCCCATCC GGGTGGCGGG GAGATCAACT CCGAGCTGTT TTTCCGAGGC
AGTGAGGAAC GGTGCCGG

SEQ ID NO:2337: (Length of Sequence = 338 Nucleotides)
ATCTCTTTTC CCACTTCATA AAAGCAAAAT ATGTAAGACT AGCATCTGGT TTTTGTCCCA ATAAAAAAAT CCCACAACTT
TCAAGATATC ACTCTAGCTT TCTAAAGTAG AAAGGCAATT CAGGCAACAA AAAATATTTT TTAAAAATCT ATAGCCCAAA
TCACCAAAAG GTAAGGAAAG AACTTTCCTA GCAAGCTCTG GAGAAGACCT AATTTGGNCA TCAAAATGGA GCTTTCAGAC
ACTAATCAAG GCCATTAATT AAAAAAATTT TTTCAGGAAA ATAAGGCAGG TTGGATCTCT TTTCCCACTT CATAAAAGCA
AAATATGTGG CAGACTCT

SEQ ID NO:2338: (Length of Sequence = 410 Nucleotides)
GGGTCTTGCT ATGCTGCCTA GGCTGGTCTT GAACTCTTCA ACTGCAGTCT TGACCTCCCA GGCTCAAGTG ATCTTCTTAC
ATAGGCCTCC CAATGTGCCA GGATTATAGG CATGACCACC ATGCCAAGCT CCAGATGGTA TTCTTAATTC AGCTCACAAT
GTGCCCTCAT CAGATTGCTA GTGGCCAGGA GTGAACAACT GAGTGACTTT AAGAATCAGG ACACCAGGAA TATGTTCCTA
GAAAGTGAAG GTATGAGTGG AAAACCTGGG TTGGATTATG AACAAGGCCC ACATGTGTGC CAGAGTGGCC AGGGCAGGGA
GCAGCAGCAG GTGCTGGTGA AAGGAAGGTG GATTACTGGG GGCAATGCCT GTCTTTGTGT TATGGGTTTC TTTTGAGGGA
AGTAGATAAG

SEQ ID NO:2339: (Length of Sequence = 336 Nucleotides)
AGGGGAGGAG GGGGCTAAGG GCGGCTGGAG GAAGAGCGAA ANAGATGGAA GCCTTCCGGC AGAAGGCAGA GCTGGGGCGT
TTNTTGAGAC ATCAGTATAA CGCTCAACTC AGCAGACGCA CACAGCAGAT CCAAGAGGAG CTGGAGGCAG ACAGGCGGNT
CCTGCAGGCC CTCCTCGAGA AGGAGGACGA GAGCCAGCGC CTCCACCTGG CCAGGCGGGA GCAGGTCATG GCCGATNTGG
CCTGGNTGAA GCAGGCCATT NAGGNGCAGC TTCAGCTGGA GCGGGCGCGG GAGGCAGAGC TGCAGATGCT TCTTGAGGGA
GGAGGGCCAA GGAGAT

SEQ ID NO:2340: (Length of Sequence = 290 Nucleotides)
TTTTAGTAGA GATGGGGGTT TCTCCTTGTT GGTCAGGCTG GTCTCGAACT CCCGACCTCA GGTGATCCAC CTGCCTCGGC
CTCCCAAAGT GTTGGGATTA CAGGCGTGAG CACNCGCGNC CGGCCTTCAG TTTCTTCCTA GGCCGTTCTG TCACCCAAAT
AGCTGCTACC CAGAGNGGCG GGGTTGACCT AGGCTGAATA TCCACTTTGT TTTTATGGAT GGCTNCCTTC CCCCATT(.I.S
CTTTNCCAGA ATATCCTTTC AAGTTNCANT TTCCCAGGGG AGCTCTTGGG

SEQ ID NO:2341: (Length of Sequence = 298 Nucleotides)

481

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TTTTGCTTAT TACCCGATTT ATTAGAGAGA TCTCTAAAAA GACGGGGTGT GGCGGGGGTA GGTGGGCGAG GAACCTGGGA
TGCAAACCAG TGTTTGGGGC CAGGAGTGGC TGTATGGTTT CANAGGCGCC CACCACTCTG GGTTTGAGGG ACACAGCACC
CTCGTCTCGG CGCTTTGGAT TNTCACGCAC CAGACCACGG GGCGGAGGAA TGGAGTGGCA TCCCTGGGGG GAGTTAAGAC
ACACGAGGTT TGCAGTTTCA TTTTGTTTCA GAATCAGTTT GGCCATAAAA ATGGGACT
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SEQ ID NO:2342: (Length of Sequence = 316 Nucleotides)
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CCTGAACAAG GTCGTGGTGG TGTGGAATTC TCCCAAGCTG CCATCAGAGG ACCTTCTGTG GCCTGACATT GGCGTCCCCA
TCATGGTGGT CCGTACTGAG AAGAACAGTT TNAACAACCG ATTCTTACCC TGGAATGAAA TTGAGACAGA GGCCATCCTG
TCCATTGATG ACGATGCTCA CCTCCGCCAT GACGAAATCA TGTTTGGGTT CCGGGTGTGG AGAGAAGCTC GGGACCNCAT
CGTGGGCTTC CCTGGNCGTT ACCACGCATG GGACATCCCC CATCAGTCCT GGNTCTACAA CTCCAACTAC TCCTGT
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SEQ ID NO:2343: (Length of Sequence = 380 Nucleotides)
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GGAAGAGGAG GAAGGTTGGA CCTTCATCAG ACCACTCCCT TCCCCCATCC TCCAGGAGAG GGGGCAAGGG CAACCCACCA
TCTACCCACT TACTAACCTG GTCCTAACCC CCTTACTGTG CGCGTGTGTG TGCGTGTGCG CACGCTCTGG CTGTTTGTCT
ATATGTCTAG CTCATCTAGT TCCTCTTCTT AAGGGGATGG GGGTCAGGGG CTAGGGGAGG GGGCTGAGTT TCCCCACTTT
AGGAGGAGGT GGGGGCTATT TCTATGCAAA TAGAAATCAG CACATTCCTC CTACTTCCCT TTCCTCCACT CCCCCCATAT
CTTTAAAGTG TGGAAGCAGA AAAGGACCTG CATTTTTCCT ACAATTGAGG AGCTGACATA
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SEQ ID NO:2344: (Length of Sequence = 282 Nucleotides)
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GGGAATATAT TTATGCAAAT TTTATTGAAA TTTATTGTAA ATAAAGNTTT TCNCAGTGGN CTAGAAAANC AGCTTGAATG
NCATTCAGCA TTTATTGAAG AAGGATGACA TCCCTNCCAC TTATTGCACA AACTTGGTAG CTTTGAGACA AATACAGTAG
CACAGTCCGT TTGAAGATTT GTCCAAAAAA TTAGTCCATA TTTTAGTGGC TCAGTGTCAA GNGTTCCCTC CCTGTGCCCC
CACTGTTGCT TCTGCAGTGA TACGAAGGAT GAATGCTTAA TT
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SEQ ID NO:2345: (Length of Sequence = 256 Nucleotides)
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CTTTATAGGA AGCTGCAAAA GAAATGAGCA GAGCGNGATA TTTGTGGTAA GGGATACAAA GAACATACAA TTGTGTACTT
GAGAGGTTTC ATGGAACATT ATGACCCATC CAATGNAGAC ATCAACATTA ACAACAAAAA TTANTTGAGG AAGAGCAGTA
TGAAAATATT CTAATGCAGT GCTGTCCAAC AGAACTTTCT GTGGTGATGG AAATGTTCCA TATCTTTGTG CTAATACAGA
ATCTACCAGC CACATG
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SEQ ID NO:2346: (Length of Sequence = 437 Nucleotides)
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GTGGAGATTG ATGCTTCINT TTTTTGTTGC CGCTGCTGCC CTCGCGCTGG GAGCCGAGCC GGAGGGAAGG CGGTGGAGAG
ATGATTGCAG AGTTGGTGAG CAGCGCTCTG GGGCTCGCCT TGTATCTCAA CACCCTGAGT GCGGATTTCT GCTATGATGA
CAGCCGTGCT ATCAAGACTA ATCAGGACCT TCTCCCAGAA ACTCCATGGA CGCACATTTT CTACAATNAT TTTTGGGGGA
CTCTTCTAAC CCACAGTGGC AGCCACAAGT CCTACCGGCC ACTCTGCACT CTTTCTTTTC GCCTGAACCA TGCCATTGGA
GGGTTGAATC CCTGGGAGCT ACCATCTTGT CAATGTCCTG TTGCAATGCA GCAGTCACTG GTCTCTTCAC AAAGCTTCTN
CAAGATCCTC CTTTGGTGAT TGGATACTGG ACATTCA
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CNCGGCCCCC CCTTTCCGCC GGGGCGAGAC CCCCAGGTTC AAANTCAGCC TGTTTGCTAC AACCTCAGGT TTTGGAACCA
GTGGGACCAG CATGTTTGGC AGTGCAACTA CAGACAATCA CAATCCCATG AAGGATATTG AAGTAACATC ATCTCCTGAT
GATAGCATTG GTTGTCTGTC TTTTAGCCCA CCAACCTTGC CGGGGAACTT TCTTATTGCA GGATCATGGG CTAATGATGT
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482

TCGCTGCTGG GAAGTTCAAG ACAGTGGACA GACCATTCCA AAAGCCCAGC AGATGCACAC TGGGCCTGTG CTTGATGTCT
GCTGGAGTTA CGATGGGAGC AAAGTGTTTA CGGCATCGTG TGATAAAACT GCCAAAATGT GGGGACCTCA GCAGTAACCA
AGCGAT

SEQ ID NO:2348: (Length of Sequence = 363 Nucleotides)
GGCCTTTCAA GNAGCGGCGG ANTTCGCCGA CCGCTGTAAG GAGGTACAGC AGATCCGCGA CCAGCACCCC AGCAAAATCC
CGGTGATCAT CGAGCGCTAC AAGGGTGAGA AGCAGCTGCC CGTCCTGGAC AAGACCAAGT TTTTGGTCCC GGACCATGTC
AACATGAGCN AGTTGGTCAA GATCATCCGG CGCCGTCTGC AGCTGAACCC CACGCAGGCC TTCTTCCTGC TGGTGAACCA
GCACAGCATG GTGAGTNTNT CCACGCCCAT CGCGGACATC TACGAGCAGG AGAAAGACGA GGACGGCTTC CTCTATATGG
TCTACGGCTC CCAGGAAACC TTCGGCTTTC TGAGNCAGCA GTA

SEQ ID NO:2349: (Length of Sequence = 332 Nucleotides)
TCCTCCTACT GATGTCTTTC AGTAGATTCA GAAGTGATTG TGGCAAACAT AGTATCTTGA AGGAAGAGAT CGTGTTTTGA
TTAGCATCTC CCGAGCCTAG TTTTGTGTTT ATGTTCATGG TATTGAGGAA ATAAAGATCA ATTTGGACTT CTTGCACCTG
TTAATACATC CTAGTTCCTG ACTGCAGCAA AATGACTCTC AGTGCCCCTT TCTCTTCTTA GTGATTGCCT AAGATGACAG
CTTCATTCCC TTTTAATTAT TATCCACCTT CTTCCCCATC TTCANTTGTT TTCTCAAGTG AGGGACTTGG CCTCTACTGG
GACTCCACTG GG

SEQ ID NO:2350: (Length of Sequence = 339 Nucleotides)
GAGATGGAGT CTCACCCCTT CGCCCAGGCT GGAGTGCAAT GGCACGATCT CAGCTCACTG CAACCTCTTC CTCACAGGTT
CAAGCAATTC TCCTGCCTCA GCCTCCCGAG TAGCTGAGAC TACAGGCGTG TGCCACCATG ACCGGCCAAT TTTTTGTACT
TTTAGTAGAG ACAGGGTTTC ACCATGTTGG CCAGGCTCGC CCCGAACTCC CGACCTCATG ATCCACCTGN CTCGGCCTCC
CAAAGTGCCG GGACCACAGG CATGAGNCAC CGCACCCAGA AAAAGCAAAT CTCTTAGTAT TTTTCCTCTT GTCCAAAAGG
TTCTGACCAT GTTCATGAC

SEQ ID NO:2351: (Length of Sequence = 354 Nucleotides)
AGAAGGACCT GAGTTGTGGC CAACAACAGG CTGCAGAAAG GCAATGCCAT CCTGAAGATT TCTCAACTAA GAGTCTGCAC
CCATGACAGC CCACCGAGAC CCTCGCTCCA AGTTTGTGGA GAAAGGGAAC CCGCTTGGCA GCATGTGGAA AGACCCCACG
ATGAGCAGCA GACACAGCAA CGCTGCCTCC TACATCTCGA CAGCATCTGT GTAAGACTCG CTAGCATCTG GTGCACACAC
TGTATGAGAC AGCAACAGCC AGAACAGACA GCTTTACGTT GATGAACACA CAGACGGTGG CGCATGTTCA GAGATGCCGA
GGGGACGCCG CAGTTCCCAA AATCACCTCT GGCC

SEQ ID NO:2352: (Length of Sequence = 378 Nucleotides)
GTTGTTTGTT TAGTGGAACA CTCAAATCAA AAACAGGCTC ACGGTCTGAA TAGTCTTCTG GTCTAAGCAA CTCAGCACCA
GCGCCGCCAA GGGGAGGCCG CCCTTGTCCT GGCCCCGGGA AGAGACGCAG CTCCAGCCCC GACGCAGACC CCATGGCGCA
CACAGGCAGG CAGAGCTCGA GGTNCAGGCG GCTGCCTTGC GGGAAGTCGC TGGGGGAGGG TCCCTNGCTG AGGCTGCACC
AAGGGCTNGG GAGAGGCCCA GGAAGGGGAG AGCGAGCTGN GAGCTTGGGA TGGGAGCCGT GAGGTGGGGA TGGTTTNGCA
GAGGGGCAGA GCCAAGGNCA GAGGCAAGTT CTNGGGCCCC ACAAGCTTAT GGTTGGCA

SEQ ID NO:2353: (Length of Sequence = 369 Nucleotides)
CTGCCTTATA TAATGTGGAT GCTGGGCACA GAGCTGTCAT CTTTGACCGA TTCCGTGGAG TGCAGGACAT TGTGGTAGGG
GAAGGGACTC ATTTTCTCAT CCCGTGGGTA CAGAAACCAA TTATCTTTGA CTGCCGTTCT CGACCACGTA ATGTGCCAGT

483

CATCATTGGT AGCAAAGATT TACAGAATGT CAACATCACA CTGCGCATCC TCTTCCGGCC TGTCGCCAGC CAGCTTCCTC
GCATCTTCAC CAGCATCGGA GAGGACTATG ATGAGCGTGT GCTGCCGTCC ATCACAACTG AGATCCTCAA GTCAGTGGTG
GCTCGCTTTG ATNCTGGAGA ACTAATCACC CAGAGAGAGC TGGTCTTCA

SEQ ID NO:2354: (Length of Sequence = 363 Nucleotides)
GGAGAGGGAT TGGCATCGGC ACCATGGAGC TCCCAGGGCT TAGAGATGGA GCAAAGTTGG CCTCACCTTG GGGAACCATT
CCTGCTCCTG GATACTGGAA GACATTCTGC TGCATCTNAG GATTGATTCC AGTGCCAAAC TGTCCTCCTA TGTTTCCTGT
CATGCCTCTG CTCACCATGC TGTTGCGGTT GGCCAAGGAT GCTTCAGGAT TTNCTGCTAG TTGTGAAAAC GGGCTGGTAG
AAGCAGGTGG GGTTCCTGGG ATTTGTACCA TAGTTTNGTG GATAGGGGAA TTGCTGTGGA GCACCCTGAG GAAGACGGGG
GTTNCCCATT TNAACTGGTA GTCCAGATGA GGGAGGGAGG GTT

SEQ ID NO:2355: (Length of Sequence = 403 Nucleotides)
AACCAGGAAT GGAGGGCCTC CTCATGTCTG AGGTAGAGTA AGACGGTGTC AGGGGGCGGA CCCGGGGGCG GAGATGAGCA
CCGGCCGCAC TGGGGCATCA TCCNGGCCCA CCCGGGACGA TGGGCCGTGG GAGGGCTCAG GGCGGTGTGG TGGCCACACT
GCGAAGAATG GATTTTTAAA ACACTTCATA GCCCCGANTT TNTTTCAGCT CCCTCTTCGT GGACACAACT TCAGGGCTCC
CTTGTCACTG GCTTTCGGGG GTGGTCTCCC CACTTGCAGA GTCTGGTCTC CACAGGACAC CGTCCTTCCC TTCCCTTCCA
AGGGGCAGGN CCCACGNACC CTCGCCCAAA AANTAAAGGA GCTTTGTGTT TGAAAACGCC AAGGCAAGCC GTCCAAGGGA
GCT

SEQ ID NO:2356: (Length of Sequence = 456 Nucleotides)
GAAAGAAAAA CAATTGGTCA AACCACAAGA ACACTGTTAC CTTGAGCCTG AGAAGCCAAT TCAGATTCAA CCCTGAATTT
GGTTGATTTG GATTAAGTGA CGCAAAAAGT CAATAGAACC ATTGANTTTC AGAAATCATA AAGTTGCACT ATGCCAAAGA
AAAGAGTACA TGTGAATCAA GCGTAGATAG AAAACATCAA GCCAAGAAAA CAACACANTT CACATAATTT TNTTTGCCCC
GACAAAACAT TTAAGCAGTT AATTTTGTTT TGTTTTGTTT TGTTTGTTTT TGAAGAACAN TTGTGGTCTT TTACATTTTC
TTGGTGGGAG AGCAAATTCT GATCAGCATT AGTGCTGTGA AATACTTTTG GNTTATCATC CCCCAAGTNT AGGGTGAGAT
CATGAGGAAA NTTTTGGCAG TCCTTCTCTC AGATTTNGTT CACTNAAANT GCTTGG

SEQ ID NO:2357: (Length of Sequence = 412 Nucleotides)
CCACCCCATG CCCAACAAGC CATATTGTCA ATAAATAAGG AATAACTGAA ACCAGACCCT TTAGGAAGAG ACAGAAATTC
CATTACCCAG GAAACCACTC AGTGAAGATG CTGATAGTTC TGATATGTTC TTATGCCCTG CCCCCTTCCC CCAAAAAACC
ACCTGCAGAA CCAAATGTTT CTCCTCAAAG CCCATCAGCA CAGATTGATA ATAATATCAC TATCAAGCCA GGGCTAGTGC
TTCTCTACAT ACTGTACTGT CACAGGTACA AAGCAAGCCC TGGACAGATA CTGTCTCCCT GCCCCCACAA ATCCAGGGAG
GAAAAAGACC AGGGANGCTT TGATTTCCTT GGGATTTAAA CCTCATGTTC AAAAAGGNTA ATAAAGGTGC TCGTACTTGT
ATCTTCTTCC CT

SEQ ID NO:2358: (Length of Sequence = 399 Nucleotides)
AGATGGCAGC AGGTTCAAGT GGGGCCCCTT GGATGCCTAA GCCTGGGGAC GACTACAGCT ACAATCAGTT TTCCACATAT
GGCGATGCCA ATGCCGCTGG TGCTTATTAT CAGGATTATT ACAGTGGTGG CTACTATCCT GCACAGGACC CGGCCCTGGT
CCCCCCCCAG GAAATTGCCC CAGATGCCTC CTTCATCGAT GACGAAGCAT TTAAGCGGCT GCAGGGCAAG AGGAACCGAG
GGAGAGAAGA ANTCAACTTT GTGGAGATCA AAGGTGATGA CCAGCTCAGT CGGGCCCAGC AATGGATGAC TAAGTCATTC
ACAGAAGAGA AAACCATGAA GTCATTCAGC AAAAAGAAAG GTGAGCAGCC AACAGGCCAG CAGCGGCGGG AAACACCAG

484

SEQ ID NO:2359:   (Length of Sequence = 352 Nucleotides)

CTTCATTAAC AAGCTGCGAG AGAAGCTGGG TTGCCAGGAC GCCTTCCCCG AGGTGTACGA CAAGATCTGC AAGGCCGCCA
GGACTGAGCT GGAGCCCGCC TGGAGAGACA GACACGTGTG AGTGGTCAGG CATCTTCCCT TCACTCAAGC TTGGCTGCTT
TCCTAGATCC ACACTTTCAA AGAGAAACCC CTCCAGAACT CCCACCCTGA CAGCCCAACA CCACCTTCCT CCTGGCTTCC
AGGGGGGCAG CCCAGTGGAA TGGAAAGAAT GTGGGATTTG GAGTCAGACA AGCCTGAGTC CAGTTNCCCG TTTAGAACTC
ATTAGCTGTG TGACTCTGGG TGAGTCCCTT AA

SEQ ID NO:2360:   (Length of Sequence = 359 Nucleotides)

TTTTTTTCAG CATAGTCATC TTAGCTTTAT TGAGTAAGGC ATCCCAATCT CTGCTAAGAT TCTNCTAAAT GAACGGCTGA
TTTTCCTGCC AAACTATGCA TTGGTCAAAG AGAAATCACC ACCTGGCCAC CCCATTCTGT CCCCCTACAG GACACTAAGG
GTTCTTACAG ATAAAGGGAC GATGCATTCA TGCCTGGAGA ACTAATCACA CCTGATTTCT CTGGGATCTA AANTAATGTC
AAATTTTGAT TCACTTTATG TAAAGAAAAA TCCTTTTNTT TTTNTGCAAA CCNCTTTCAA GANCAATGCT GCCCATCCCA
TGCAAGATGT TGTTGTAAGG CCANCNTCTG GTATACTAA

SEQ ID NO:2361:   (Length of Sequence = 437 Nucleotides)

CTCCAGGATT CCAATCCAGT CCGAACTCAA CACGAGGGGT GGCACCTACA GGCTGGGGTC AATCTGGAAG ACTGCCTGTT
GTATGGCCTG GCAACTAAAA AATGTTTTTT ACATTTTTAA ATGGTTAACA AAATTAAAAT AAGAGAATAT TTCATGACAT
CATCAAATTA CACGAAATGC AAATTTCAGC ATCTACAAAT ACAGTTTGAT TGGGACACAG CCACCCTCAT CCGTTTGCAG
GCTATCCCTG GCTGCTTACA GGGTCCACAT AGTCCATAAA GCCTGAGGAT ATTTACTATC TGGCCTTTTA CAGAAAAAGG
TCCCCAAACA CTAAATCTGA AATGTTTTGC ATCAGAACCC CTTGTGGGGC TTGTTAGGAA TGCAGCTCCC TGGTCCCACA
NCCAGTCTCT GGATTCAGTA AGTCTGGAGC AGGGCCT

SEQ ID NO:2362:   (Length of Sequence = 317 Nucleotides)

CTTCTCTGGA TGTGCCTGGG CTTGGACTGG CTAGAATCTT TCTCTGGACT NTTGCATGTA CAGTGNCTCC ATCCTGGAGG
CAAGAGAGTT GGGAGTGGCT CGAATCANAG CCGTGCCCAA GATATCCCTN CTGTTGCATC GTTTGAAGCT GACGTCCTGT
GTCTNTACAC TGCTGCCACT GTTGTNTCCT CGNTCTGCTT GCTGTTGCCT CACGCCAGGN CCCGTCCTGC CGTGACANCC
TTCATCCTAC CCTTGGAACC CCAAGGCCAA GTTGGTTCAA ACTGTTGGAG AACAGAGTTG GCCTGCATCT TGGAACA

SEQ ID NO:2363:   (Length of Sequence = 412 Nucleotides)

GTCAGAGTNT TGATAGTTCT ACTGGGAGAC CACAAAATGA CATGGTCCAT CCTCCTCCTT ATCCAAAGAT GCATGGTTAA
AATAATATAG ATTAGGAATC ATCGTTACCT CCAAACAGTT AATTCAATTC AAATTTTTAG CCCAGACTGG TTTTTAAAGA
CATTTTCTGC CAAAATTTTT TGGAAGTAAA CACATTAAGG GTAGGTGTGG AGAACGATTA ATGGATTCAT TTTTATACTC
ACATCTGTTT TGGAAATATA TTTTATGCAA TAAAGCATAA ACTAACAGGT ATACTTATAA ATGTCTGGTT TTAGAAACAC
TAAAAGATCT CCAATCTTAG GAGGCCTTAA TTTGAAACTC TGCTTTTATT TGCCTGAACT AGTGGCTAAC CTGTNTAGGC
ATCTCACGAG GG

SEQ ID NO:2364:   (Length of Sequence = 334 Nucleotides)

GAAATGATTT AATATTAGGA AAGGCAAGTN CCTCGAGACA TTTATTTAAG CTAATCTGTC CTTGATTTTT GACTTTCAGA
TTCATTACAC CNAGCCACAT TAGCCTGCAC CATTAAAAAC ATTGATTCAA CCTCTCTTAT TGGCATAGAC AATACATCTC
CCTTGTTCAC TACTCTATCC TCAGCTTGGT ATTTCTCTAG CACAGAAGAA TGGTCCAGTA GATATGCTGA AGAAATACCT
GAATGCATAA ATAAATAAGA AAATGAGAGA CTGAATGANT CAATTAATAC CTCAAGTGTT ACCCTNGATA AGGTTCTAGA
GAGGGGAGGT TCTA

485

SEQ ID NO:2365: (Length of Sequence = 423 Nucleotides)
TTTTTTGCCA TTTAATAAGT ACTTTATTGA TATTATATCA CACAGCACTT TACAGTATAC TCAAAGATAG CCTAAATTAT
GAATTAAACA TGCAAATATT TNCTTTTCCA AAATGTGGAC AAAATGTCTT TTAGAGTGCT TTTGAACACT AGCCTTAGCT
ACTAAGCATT CATGGGTTTG ATCTTTCTTG CGACATGACT TTAAGTAAGT TAACAAAAAA TGTAGCTGTA GACAGTAATT
GTTTGATAAA TATGANCAGT TTTAAAATGG CACTGAATTT ACATCTTTAA TCATTTTAAT AGGGCCATCC ACAGCCTCTC
TTGTGTCTCT AATTCTCAAC CTCCGGGGTC TTTAAAGGGC TGGTAAAGGC TCAGAAAGTG NCCAGCTCCA TGTGGGGTCT
CTGTAAGNNG TCTATGTCTT CAT

SEQ ID NO:2366: (Length of Sequence = 294 Nucleotides)
CCAGCCATAC ACATGCCTTT ATTTAGATCA GCTTTTTTCA AAATGCAGCC AAACTTATGA GTTGGACAGC CCAAAGTAAC
CAGCCCTATT CCACTGAGTT AGTTTACCCC ACAGCAGTAG AACCCAGTGC TGGTTTGGTT CCTGGCCCAT GGTGGGACAG
CGTGAAGGTG ATGGAGGGCT CTAGCACAAG GAGGTGCTGA GTGCCACCGG CAGGTGCTTC TGCAGACAGC CTAGAGCAAG
GTAAGCAGGA GCACTCGNTT CAGAACCGAG GCGGCTCGGA CCAGAGGGCA GGCA

SEQ ID NO:2367: (Length of Sequence = 393 Nucleotides)
ACGGACAGAG CGAAGGGGAG AGGATGGTAG TGTCTGACTT CCACGTTTTC GTCAGGGATG TGTTGCAGCA TGTGGATTCC
ATGCAGAAAG ACTACCCTGG GCTTCCTGTC TTCCTTCTGG GCCACTCCAT GGGAGGCGCC ATCGCCATCC TCACGGCCGC
AGAGAGGCCG GGCCACTTCG CCGGCATGGT ACTCATTTCG CCTCTGGTTC TTGCCAATCC TGAATCTGCA ACAACTTTCA
AGGTCCTTGC TGCGAAAGTG CTCAACCTTG TGCTGCCAAA CTTNTCCCTC GGGCCCATCG ACTCCAGCGT GCTCTCTCGG
AATAAGGACA GAGGTCGACA TTTATAACTC AGACCCCCTG ATCTTNCCGG GGCANGGGCT NAAGGTGTGC TTT

SEQ ID NO:2368: (Length of Sequence = 187 Nucleotides)
GATCTTGAAG TTAAACCAGT GTTAGAAGTT TTGGTGGGGA AGACAATTNA GCAGTCTCTT CTGGANGTAA TGGAAGAAGA
AGAGCTGGCT AACCTGCGGG CCAGTCAGCG TGAGTATGAA GAACTACGGA ATAGTGAACG TCCTGAAGTT CAACGACTTG
NAGAGCAAGA NAGGCGACAC CCAGAAG

SEQ ID NO:2369: (Length of Sequence = 341 Nucleotides)
GTATCTTTAG TAGAGGCGGG GTTCCACCAT GTTGGCCAGG CTGGTCTCGT ACTCCTGACC TCAGGTGATC ACCTGCCTCC
TCGGCCTCCC AAAATGCTGG GATTACAAGC GTGAGCCACC GCGCCTGGCA CCATCAGTTT TTGATCCTGA TACTTGTCTG
TCCTCTTGGT TCTCCTCATC CCTAATTTAA CCTTGAACAC AAAATTCAAC AGGTTTTGGC ATATAGAATA AAGATTATCA
GGCAAAGGCG CACTCTTGAC CTAATGATAT ATCTACATTT CATTTCCTGA TCTATCAGCA ATATTTAATT TGTCTAGAAA
TGATGAGAAG TTTAGAGGAG G

SEQ ID NO:2370: (Length of Sequence = 337 Nucleotides)
AGATCAAGAT CTCTCCCAAA ATGCCAGTAT GCAAAGGACA CTTGGGGCAG CCTCTCAACA TTTTCTGCCT GACTGATATG
CAGCTGATTT GTGGGATCTG TGCTACTCGT GGGGAGCACA CCAAACATGT CTTCTGTTCT ATTGAAGATG CCTATGCTCA
GGAAAGGGAT GCCTTTGAGT CCCTCTTCCA GAGCTTTGAG ACCTGGCGTC GGGGAGATGC TCTTTCTCGC TTGGATACCT
TGGAAACTAG TAAGAGGAAA TCCCTACAGT TACTNGACTA AAGATTCAGA TAAAGTGAAG GAATTTTTTT GAGGAAGTTA
CAACACACAC TTGGATC

SEQ ID NO:2371: (Length of Sequence = 320 Nucleotides)

486

CGTGGCCGCA GAGGCAGCTG AGCATGAGGG ATGGAGCGTG CTGCTGTCCT GCAGGTGCCG TTAGCCCTGT TTTGCACTGG
TGGATTGATC TGCTCAGGCG CACAGGGAGA TGGCACAGCA GGACCCGCCG CCCAGCCTCG CTGAGGGCAT GCTCCCGCCT
CACCTCCAGA GGCTGTTGGG CGGAAGCGAG AGCTGCAGCA GTTGGGGCCA GCNTGGGACT GGAGGCCCAG GTGAATCTTG
TGGGGCAGGG GACGGAGCTN AGGCTGTCCG GCCCGGGCCC TTCCCACCCA AAGGCCCTAG AACCCTAGGC CTTCAATCCT

SEQ ID NO:2372: (Length of Sequence = 326 Nucleotides)
AGGCCTGGCA TGCGGCGAAA AGTTCCTGGA GAAGGCCTCC CCCTCCCCAA AACACCCGAG AAACGTGGGG ACCTCATTAT
TGAGTTTGAA GTGATCTTCC CCGAAAGGAT TCCCCAGACA TCAAGAACCG TACTTGAGCA GGTTCTTCCA ATATAGCTAT
CTGAGCTCCC CAAGGACTGA CCAGGGACCT TTCCAGAGCT CAAGGATTTC TGGACCTTTC TACCAGTTGT GGACCATGAG
AGGGTGGGAG GGCCCAGGGA GGGCTTTCGT ACTNCTGAAT GTTTTNCAGA GCATATATTA CAATCTTTCA AAGTCGCACA
CTAGGA

SEQ ID NO:2373: (Length of Sequence = 361 Nucleotides)
AGCAGAGCTG AGGGAAGGCG TAGGATGGCT CCAGCTTCCG GTCAGTGGCT ACATGGTCAG TTCCATGATG GCGTTGACGA
TGTCACTGTG GTTGTNTCTC AGAGCCCGCA CGGCCTTGGC CCTGGACACA TTGGCCTGCG CCATCACCAG CTCAATGTCA
CGCAGTTCCA GCCCCGCCTC GTCCACCTCT TCCTCCTCCT CCTCTTCCTC TTCCTTGCAC TCCAGCCTCA CCCGGGGCCT
GGGTGCTGAC TCAGGGACCA AGGCTGAGGG CTCTGAGGGN ACCTTAAACT TCTCAGCTGC GGCTTTGTGC ACTTGCTGGG
ACAAGGTCCT CAATCTTGGN CTCGCCAAAG ACCACATAAG T

SEQ ID NO:2374: (Length of Sequence = 281 Nucleotides)
TGACTCTAGT CTGGCACTTA TTGATGACAT TGAGAGGCTG AAATATGAAA TTNCAGAGGT GATGACAGAG ATCGACAATC
TAACTTCCGT AGAGGAGAGC AAAACGACTC AGAGGNACAA ACAGATAGCC ATGGGAAGAA AGAAATTCAA CATGGNTCCC
AAAAAGGGAA TTCAGTTTCT AATAGAAAAT GACCTGCTAC AGAGTTCCCC AGAAGACGTC GCCCAGTTCC TTTATAAAGG
AGAAGGCCTA AATAAGACCG TCATTGGGGA CTACCTGNGG T

SEQ ID NO:2375: (Length of Sequence = 391 Nucleotides)
ATGTTTAGTG CTTCCTTCAG GAGCTCTGGT AGGGCAGGTC TGGTGGTGAC AAAATCTCTC AGCATTTGCT TGTCTGTAAA
GGATTTTATT TCTCCTTCAC TTATGAAGCT CAGTTTGGCT GGATATGAAA TTCTGGGTTG AAAATTCTTT TCTTTAAGAA
TGTTGAATAT TGGCCCCCAC TCTCTTCTGG CTTGTACAGT TTCTGCTGAA AGATCTGCTG TTAGTCTGAT GGGCTTCCCT
TTGTGAGTAA CCCGACCTTT CTCTCTGGCT GCCCTTAACA TTTTTNCCTT CATTTCAACT TTGGTGAATC TGACAATTGT
GTATCTTGGA GTTGCTGTTC TCGAGGAGGC AACCTTTGTG GGCGTTCTCT GTAATTTCCC CGAATTTGAA A

SEQ ID NO:2376: (Length of Sequence = 324 Nucleotides)
CCAGCCCTCC CTCAGCTGGG AACACAGCCA GGTGCCCTCA GACCCCTGGN TCTGCACAAG GGGGGCCTGC CCCCTCGCCC
CAGCTATATA CACGACAGCC CATCCTGCTG GCCGTGGACA AAAGCTGGGA GCTCCTGTGC CCAGTCAGGA GCCCCTACAG
TCCACCAGCT GCGCGGCCGG GTCCAGGGGC CCACTGTGGT GCCAGCNAGT TTNTCAAAAC CNAGGGCCCA GCCCCAGCTG
GCNCCTNGCC AAGCCCCAGG CCTGTTTGCT GGGATGGAGC CTCCACACTG AGGCTGGTAA AAGCTTGAAC TCAACAGCAG
CAAT

SEQ ID NO:2377: (Length of Sequence = 357 Nucleotides)
GTTTATGTTT TTATTTATGT ATTTTAACTG ACTTATTTGT GTATCCCACT AGAACAATAC ATTCACAATA TACTTGCAGA
ACTGTGCCTG GTGCGTCATG GGAGCAGAGA ACTTGTCCAG TGAATAGTTG TTGAAGAAAG GAGTAAAATC TCCCCCAAAC

487

CCTAAAGGCA TCCTTTTCGT AGTGTGTGTC CCATAGGTAT GGCTGCTGAG CACCAGGGCT GCTCACCATG CTCCCAAGAA
GCAGAGTCAG GGAGGCAGAC AGCAGGGTTT ATTAAGGTGC ACACCCATGT CTGAGCCCCA GCTCTCTCCG NCTTCTGTGG
GGAGGAAGCC CTCCGGTCTT TCCGAGGAAC CTTCAAA

SEQ ID NO:2378:   (Length of Sequence = 454 Nucleotides)
GACGGGTCTT TCAATAGCAA GTTTTCACTT CATCGACAAC ATCACGAAGG TGGTAACAAA CAAATGCTTT ATCAGGCTGG
ACTTCATTTC AAACTCCCCC AAAGCACAGA TCCATTACGC ACATTTAAAG ATACCATCTA CCTTACTCAG GTGATGCAGG
CCCAGTGTGT CAAAACAGAA ACTGAATTCT ACCGCCGTAG TCGCAGCGAG ATAGTGGATC AGCAAGGGCA CACGATGGGG
GCACTTTATT GGCAGTTGAA TGACATCTGG CAAGCTCCTT CCTGGGGCTT CTCTTGAGTA CGGAGGGAAA GTGGAAAATG
CTTCATTACT TTGCTCAGAA TTTCTTTGCT CCACTGTTGC CAGTAGGCTT TTGAGGAATG AAAACACGGT CTATATCTAT
GGGTGTGTCA GATCTTCACT CGGATTATTC GATGACACTC AGTGTGAGGA GTCC

SEQ ID NO:2379:   (Length of Sequence = 224 Nucleotides)
GGAAGAGACC TCACAGGTNA TTAAANGTGT ATTTTNTGGA CCTGGGCTTG GCTGGAATGC TCAGGGGTCC TGAAGATCCT
ATTATAGCTT CCTTCTGTTG AACCATTAAG AAAAGATGGC GANAGTCAAC ATAACTAGAG ACCTCATCCG TAGNAGATCA
AGGAGCGGGG TGCCCTTAGC TTTNAGCGGC GCTACCATGT CACTGTNCCC TTTATCCGGC GGCT

SEQ ID NO:2380:   (Length of Sequence = 274 Nucleotides)
AGGTTTGAAA TATCTTTTTG CAATAGATAA TCTTATTTAC ATTAATACAG AATCATTTTA CATTCCTAAA TCAGACACTA
ATAGATGCTT TATTTTAGTG AATTATAAAG GAAAACAAAA AGGAAACTGT TGAGAAGTGT TCTTCATTAA CCNGTCTAAC
GNCAGCCCGA AGATCCNGNA ACACATGGAA ACTGCGNCAT GCTNCCNGCA GAGGCTGGGG AATGGGGGTT CTGCTCTCAC
TGAATGGTGG GGAACCTTCA ACTGCTTAGC CTGT

SEQ ID NO:2381:   (Length of Sequence = 312 Nucleotides)
GCACAAACAG TTTTATTTGA TGANCCACAG TGACTAACAG GNTCAGAAGA CAGTGCAGAT ATTCTGAAGA AGGCACTGNG
GGAGGTAAGG GGGTATCACA GCAGGCAGCC TCCTCTGNTT CTNTCCCAGT TCACAGATGA GTTCCAGGCA GGAAGTCTCT
GCAGGTCACC CACGGCGGCC TCAGAGGGAC AATTTNTTCC CTTCTAGAAG CCTNTTCCAG TGTTCACTGG ATGNTTTGAG
GACAGNTCTG GGCAGAGGAG GTGACTCTGT GAAAGATGCT ATCTTAAGAT GGGGAGACTA GGCTGTGAGG AG

SEQ ID NO:2382:   (Length of Sequence = 402 Nucleotides)
CTTAAACTAA CTTTGAAGCA AGTAATGTCA ACTTTGAGCA CTTTGTTGAG TTTTGAAAAA TCTTATTTGT TGCTGCACAG
GTTAATAAAT TATCAATTTG TAATTCAGCA TGTTGGTCAG AGACACGGTC ACTGATTCAC ACCCAGTCCC TGCCACAGAC
CGTCTCAGAC ACGCACAGTG GGCCTGCTGC ATGATTCACA CCCAGTCCCT GCCACAGACC GTCTCAGACA CGCACAGTGG
GCCTGCTGCA TGCGTGTTAC CTGGCTTTTG GCTCCACGCT CACTCATAGC CATGTCCACA TGGGGGGCTT GCACACAGGA
TCACTCACAT ATGTACATGT ACCCACCACA AACGTGCAAA GCTCCTTGCA CACATGCATG CACACAAACG TGGTACACAA
GT

SEQ ID NO:2383:   (Length of Sequence = 406 Nucleotides)
GACCCTTTTC ACTTAGCCCT CTTGGGTTTG CAACAIGCTT TCTCTCTCAC CTTCTCATTG AATGAGAAAA AACAGCCCAG
CCATTTTTTG CAACAGTAA AGCACCAGAG TGATGATGGC TTTGCTCATC TCACTTGACT TTCACAGTAA CTTCTTTCT
TGTAGGCAGT CCAGGCATTA TTATTTTCAT TTTACAGATG ATGCAACTGA GGCTCAGTGT GGTGAAACAT TTGGCTCATA
GCCACACAGC TGATAAGCAT CAGGGACTTG GGACCTAGGN CTTCACATTT CAAGTCAGCT GTATCTGTCC CCAAGCCCCA

488

CCAGACTTCA TGTGAAGGTG GCTGCTTCTG GGGTGATGGT GGCTGGAGAG GCAGACTTTG AGGCTGCCAT GCTCTTATTT
TCAGAT

SEQ ID NO:2384:   (Length of Sequence = 165 Nucleotides)
TTAAGACAAT AATGAAAGAT TCTGTACAAA GTTACCAAGT CTACAGGCTG AGCGAGCCAA GGGTAAGTGG GGCCTGATCC
TTGTGGACGA ATGTNCCCGG GAGAGCTGGC CTCACCTGGG GGAGGCACGT TGAAAAAGTA CACATTTACA GGGCTCGGGA
AAGGC

SEQ ID NO:2385:   (Length of Sequence = 297 Nucleotides)
GGTTTTNATT CATTCTCTTC TATTAACCTC TCTAAAGGAA ATTGGGCACC TGTAATCCCA GCACTTTGGG AGGCTGAGGT
GGGTGGGTCA CTTTNAGGTC AGGAGTTCAA GACCAACCTG GCCAGCATGG TGAAAACCCA TCTCTACTAA AAATACAAAA
NTTAGCCAGG CTGGTGGTGT TCGCCTGTAA TCCCAGCTAC TCAGGAGGCT GAGGCAGGAG AATTGTTTGA ACCTGGGAGG
CGGNGGTTGC AGTGAGCTGA GATCGTGCCA CTGCATTCCA GCCCAGGGTG ACAGAGT

SEQ ID NO:2386:   (Length of Sequence = 290 Nucleotides)
AAAAAATAAA GTGAATTTAT TGGTTCATGT AACTGGAAAG TCTCATGAAA ATGTCAGCTT CAGGAGAAGC TTGACCCAGC
AGCTTCATGA TGTATGGAAA TACCTGGGTT TTTTGTTTCT NCTCTGCTAC TGTGGTATCA GCTTTATTCC AAGTCTGGCT
TCCTTTGTTG TTGCAAAATG CTTTGTCAGA AGAAGCCTGG GTCCATCTGT TAGGNTTAAG TTTACTCTGT ATGCTGTAGT
AGTGGCTATG ACAAGATTAG GAAGTGTATT TTCTCCTCCC ATATTAAAAG

SEQ ID NO:2387:   (Length of Sequence = 356 Nucleotides)
GTCATCTGTA TTGTCACATG AAATGCACAT CCAAAACGGG TGACTTGGAA ACGACCTATT AGGTCACACG GAGTCCGGCC
CCTGGGGGCA AAGCCTCATC GATGCCCACG GGCGGTGGCC AGCACTTTCC TTGGGCTGTG GCGTGTGCAC CCGGCCTCCC
CAGCGGAGAG TCAGCTCACA CCCCAGGCCC TTTAGCTCTC TGGCAGCAGC TCCCAAAACG CACTTGAGGA ACCAATAATT
CCTTGGGGGT TAATAGCTGT TCCCCAAGAA AAGGGTTCTG TGGGTCAAAT AAGTTTAGGA AAACATGGGT TAAAGAAGGT
TTAGGCAAGA AGCTTTTCTA TAGGGCTTTG TCAGAG

SEQ ID NO:2388:   (Length of Sequence = 226 Nucleotides)
ATTATTGGTA TAAAAACTTA AGACGGCATT AGAATTCTTA AGAAAAGGTG TAAAATTTAA AAAGATGTGC AAACAACAAA
GAATGCCCGA CCCTGAACCA GACCTAAAGC ACCTTCCANT TCCTCCACAC ATCATGCCCC AACACCATCC AGCCCAATCG
GACACCAGGA CAGTGAGGGA CGGGTGGCTG TTCAGTGGGC AACAGATCTG GAAGGAAAGA TTTTCA

SEQ ID NO:2389:   (Length of Sequence = 250 Nucleotides)
CCCAGCTAGG CCTTGGNATG GCTNCAGTGA GGAGAAATCC CGGGAACTGT ATTGACACAA AGATTCTNAT TGCACTTGTA
TTTTTNTATT AAAGTTTGCA TGGTTTCTAA TAAAGGATTC AAACATAAGT TTGTAGTGAA ATGGCCTGGN AGATTCCAAG
GGCTTCTCTN GAAGGGGGAT TGNGCTGCAN TGTAGATTTN CCTCTGAAGG AGGCTGGCCC CAAACTTGGN CCTCCTCATG
ACCCCCTCCT

SEQ ID NO:2390:   (Length of Sequence = 371 Nucleotides)
CCTTTTTCTG GAGAACGGGG TCTCGCTATA TTGCCCAGGC AGGTCTCGAA CTCCTGGGCT CAAGCTATCC TCCCGCCTCT
NAGCCTCCGT TTCCAGAAGG TCACCAAGTA ATATCTGCNT TTCATCAGTT GCAGTTAAGA TTTTNNTTTC TTGAAATACT
GGTTTTCAAA CAGATCAGAA TTACCTGGGG AGCTTGTTTA AAATATAAAT GCCCCAAGGC CAGCTCCAGG ACATTCTGAC

490

GAATTTTTTT ATTTAGGTGG ATGCATTTTT NGTCTGTTTA CTGCTCTTCT CAGCTTTATT CAATAAACTT GCATTTTAAG
GGTTGTATTG GCAATTTTAA CTTAAAATGT GCATCATGAT GGAAGGTGCA GACCTTTTT

SEQ ID NO:2398: (Length of Sequence = 421 Nucleotides)
GACAGGTTGG TCTTACCCAC TGGNTCCCAG TCATGCTGTA AACAGGGCTT GCTTTGGAGT CTGTCAGACC TGGCTTAGAC
CCAGGCTCTG ACCAAATGGG TGAGTTATGC AGCTACTTGG TGGCATCTAA TACCCTATCG CAAAGGACTG CCGTGAACAG
GAAGGAGGTG TCAAATTTGG CAGTGCCTGA TGAGGTGAGG CCAGGACCCA GGAACTTCTA TTCCCTCCCA TGCTCAGGAA
CAGTAAGTGT TCTTCTATCT GCAGAGGTAG ATGCTTAGCA CATCGTGGGT ACTTCACTCA TGATTGCTAA AATTTGAATT
TGTGGATAAA GTCATTTCAA AAGTCAGATT CTAGGACCAA AAATACAATA TCTGTCCAAC ATGGAACTGT TAGATCATGG
TTTTTCCTTC CAGCCCCAGG A

SEQ ID NO:2399: (Length of Sequence = 392 Nucleotides)
GATAAGCTTG ATATCGAAAG TNCCACAATG GGTCAGCTGT ACCAGGAACA CCATGAAGAA GACTTCTTTC TCTACATTGC
CTACAGTGAC GAAAGTGTCT ACGGTCTGTN AAGCTGCTGC CCCTGAGCTG GAGGGGGGTC TCATTCTACA AAGAGAGAGG
TGGCCCCCCT TTCTTGACCT CCTCCTCCTT CAAGCTCAAA CACCACCTCC CTTATTCAGG ACCGGCACTT CTTAATGTTT
GTGGCTTTCT CTCCAGCCTC TCTTAGGAGG GGTAATGGTG GAGTTGGCAT CTTGTAACTC TCCTTTCTCC TTTCTTCCCC
TTTCTCTGCC CGNCTTTCCC ATCCTGCTGT AGACTTCTTG ATTGTCAGTC TGTGGTCACA TCCAGTGGAT TG

SEQ ID NO:2400: (Length of Sequence = 366 Nucleotides)
CTGGGGAAGG ACTGGCACAA GTTCTGCCTN AAGTGCGAGC GCTGCAGCAA GACGCTGACG CCCGGGGGCC ACGCCGAGCA
TGACGGGAAG CCGTTCTGCC ACAAGCCGTG CTACGCCACC CTGTTCGGAC CCAAAGGCGT GAACATCGGG GGCGCGGGCT
CCTACATCTA CGAGAAGCCC CTGGNGGAGG GGCCGCAGGT CACCGGCCCC ATCGAGGTCC CCGCGGCCCG AGCAGAGGAG
CGGAAGGCGA GCNGCCCCCC GAAGGCCNCA GCAGAGCCTC CAGTGTCACC ACTTTCACCG GGGAGCCCAA CACGTGCCCG
CGCTGCAGCA AAGAAGGTGT ACTTCGCTTG AGAAGGTGAC GTCTCT

SEQ ID NO:2401: (Length of Sequence = 385 Nucleotides)
CATCCACCCA GGGATTAGGG TTCAAGTAGC AGCTGCTAAC CCTTGCACCA GCCCTTGTGG GACTCCCAAC ACAAGACAAA
GCTCAGGATG CTGGTGATGC TAGGAAGATG TCCCTCCCCT CACTGCCCCA CATTCTCCCA GTGGCTCTAC CAGCCTCACC
CATCAAACCA GTGAATTTCT CAATCTTGCC TCACAGTGAC TGCAGCGCCA AGCGGNCATC CACCAAGCAT CAAGTTGGAG
AAAAGGGAAC CCAAGCAGTA GAGAGCGATA TTGGAGTCTT TTGTTCATTC AAATCTTGGA TTTTTTTTTT TCCCTAAGAG
ATTCTCTTTT TAGGGGGAAT GGGAAACGGA CACCTCATAA AGGGTTTCAA AGATCATCAA TTTTT

SEQ ID NO:2402: (Length of Sequence = 392 Nucleotides)
AAAGAACTTG GTATCTCTAT TAAAGTACAT GANCCTCCAA GGAAAATAGA GCGATTTACT CTTCTCCAAT CAGTGCATAT
TTACAAGAAG CACAGAGTTC AGTATGAAAT GAGAACACTT TACAGATGTT TAGAGTTAGA ACATCTAACT GGAAGCACAG
CAGATGTCTA CTTGGAATAT ATTCAGCGAA ACTTACCTGA AGGGGTTGCC ATGGAAGTAA CAAAGACACA ATTAGAACAG
TTACCAGAAC ACATCAAGGA GCCAATCTGG GAAACACTAT CAGAAGAAAA AGAAGAAAGC AAGTCATAAA GCCTTCAGGG
AGGCCATTTT TGCCTAAATT TTGAAATGAG GGTGGGCCAG ATGAGTATGT TTAAGTGGAG AGTGCTTTCC AG

SEQ ID NO:2403: (Length of Sequence = 179 Nucleotides)

491

TCATTAAGTT ATACTCTTGG ATAGGAACAC TGAGGAAAAA TGAAAGATGA GATTTGCAAT AGGGATTCTC TAATTCTCAT
GTTAATCTGT TTTGTACCAT TTTTACTTTG TCTTTTGTGG ATCTCTTCTT TTTATTAGAT GATATTAAAG GGGATTAAAG
TTGTATTGTA TGAAATGTC

SEQ ID NO:2404: (Length of Sequence = 399 Nucleotides)
TTCCCAAAGT GGTTGTAACA TTTTACACTC CTACTAACAG TGCATGGGAA GCCAGTTTCT CTATATCCTC TCCAACATTT
GGTGCTGTCA ATCTTTTAAA ATTTTAGCCA TTTTTGTGGT TGTATAGTGT TATCTCATTG CAGTTTTAAT TTGCCGATCC
CTGAATGTGT GTAGGTGTGT ATATGTATTA TATAATATAT ATATNATNCT TTCACTTATT TTGAAGTAAT TTCAAAGTTT
CCAGAATAAT ATCAAGAACT CCTGTACTCC CTTCGCCAGA TTCTCCAATT GTAATGTTTT ATTGCATATG CTCCATTGCC
CATTCTCCTC TCTACTTATA GCTTGCATTA GTGTTTTCCT GGAACCNTTA GAGATGAAGG TGGAAAAAAG GATGCGGGT

SEQ ID NO:2405: (Length of Sequence = 404 Nucleotides)
GGAACAGAGT GACCTGACCA CCCTAACATC AGCTGCATAC CAGCAGAGCC TGACTGTTCA CACAGGAACT CATCTCCTCA
GCATGCAGGG GAGCCCTGGA GGACACAATC GCCCAGGCAC CCTCATGGCA GCTGACAGAG CCAAACAAAT GTTTGGACCC
CAAGTGCTTA CGACCCGGCA CTACGTGGGC TCAGCAGCTG CTTTTGCAGG GACACCAGAG CATGGACAAT TCCAAGGCAG
TCCTGGTGGT GCCTATGGGA CTGCTCAGCC CCCACCTCAC TATGGGCCCA CACAGCCAGC TTATAGTCCT AGTCAGCAGC
TCAGAGCTCC TTCGGCATTC CCTGCAGTGC AGTTACCTAT CTTCAGCCAC AGCCACAGGC CTATTGCTGT GCATGGGCCA
TTTT

SEQ ID NO:2406: (Length of Sequence = 280 Nucleotides)
AAGAGAGAAC ATTTTATTTG TCTATAATTA GGGTAAACAG TTGGGTAAAA YCTTACTAAA AGAAAGTTAA GGTTGTCTTA
ACACAAGATA TATAATGNCA TAAATYAGTT AATTAAATTT YAATTAAAAM CAGCTGCTTT GGAAATCCAA CATGTATACT
TCAAAATAAT TTACCTAAAT AACTTATGAA AATGGATGTT ATTGTACAAC TCATCTCTCC TTATAAAAGG NGAACAAAGG
ACATAGGAAA GCTGAAAAGA AGGCTAGATG AAGATACAGG

SEQ ID NO:2407: (Length of Sequence = 350 Nucleotides)
TCCAAGGGCA ATATAAATTA CAGTATGCAA AACATACTGA CTGGCTGAGG TAAAACGCAC TGCTCCTGCC TCACGTCACC
ATGAGGGGAA ACACACATAT GCTTTTAAAA ACATCTGGCT TATAAAAAAA CATCCCCTAG AAAGGCCTCC AGAGAGGGGC
TGTGAGGCTC ACCCTCTGCC GCGCTCAGGA GGACCCGCCG GCTCAGCCCT GGCCCCTCCA CTGCAGCCAT GGGTGGCGCC
TCCCCCTACT GCCTGCCCAG GGCTCTGTCC AGGTTGCTCT TGATGGTGTC GAGGAAGTCC GTGGTGTTCA GGAAGTGCTC
GTTCAGCTTC ACATTGCTGA GGCCGTGAAT

SEQ ID NO:2408: (Length of Sequence = 239 Nucleotides)
ATNGNTTTGG GGTCGCNAGA AATGGATGTG CGGAAGAAGA AGAAGAAAAA AAATCAGCAG CTGAAAGANC CAGAGGCAGC
AGGGCCTGTG GGGACAGAGC CCACAGTGGA GACACTGGAG CCTCTNGNAG TCCTGTNCCC GTCCACCACC AAGAAGAGGA
AGAAGCCCAA AGGGAAAGAA ACCTTCGAGC CAGAAGACAA GACAGTGAAG CAGGAACAGA TTAACACTGA GCCTCTAGA

SEQ ID NO:2409: (Length of Sequence = 331 Nucleotides)
TCTCTTCAAG AATTTCAGAC CAATCGACCG TCCTGTCTCT TTAAGGCTTA GGAAGAGCAG TGTGGCTGCC CCTTTAAGGA
GGCGTTGCAA CAAACCATAT TGGACAGACG ATGGGGGCGA CTCATCGGGA CCCGACGGGC CTCTGACTCC AGCAATACAG
CGAATCAGCG GCTTTCGGGA ATACATTTTT CGGAAAAAGA CTTCTTCCTC GGTTTTCTGC TCTGCACACG TTGAAATTTT

492

CCCCAGTTTT TCCTGCAGAT CGGGAGTCGA GCAATGCCTA CCCCCGCCTC CCGCACCAGT TGGGCGCTCC CGGATGATGC
CCTACCCCTT T

SEQ ID NO:2410: (Length of Sequence = 135 Nucleotides)
CTGCAGGACT TGCGAAGAGC GTGCATTCCC AGTGGGCGAA CGGGAATTCG AACGGAGAGA GGGTTATCTT GTGGGGGGCT
ACCCGTGGAG AGCAAGGCGC CCCCAGGGGT TGGNTCGGTG AAATTNAGGT CGCCC

SEQ ID NO:2411: (Length of Sequence = 330 Nucleotides)
ATGCTGCTCG GTTCTCTTGT CCCCCCAACT TTACCGCGAA GCCCCAGCCT CAGAGTCCCC TCGTTTCTCC TTGGAGGCGC
TGACGGGTCC AGATACGGAG CTGTGGCTTA TTCAGGCCCC TGCAGACTTT GCCCCAGAAT GCTTCAATGG GCGGCATGTG
CCTCTNTCTG GCTCCCAGAT CGTCAAGGGC AAATTGGCAG GCAAGCGGCA CCGCTATCGG AGTCCTCAGC AGCTGTCCCC
AAGCTGGAGA AGCGACCCTG CTGGCCCCCT CAANGGAGGC AGGAGGTGGA CTCACCTGTG CCTCAGCCCC CCAGGGCACC
CTAAGGATCC

SEQ ID NO:2412: (Length of Sequence = 583 Nucleotides)
TGCACCGGTG CACCAGGTGC CCGTGTGGAT TGTNACAGNN ACGTGGGTNA TGAAGGTAAC CACCTACCGN GTGCACGTGG
CCNAGCAGCA GGACGTGCAC CTGACTGTNA CGGAGTCTCG GCAGCATGAG CTCTCGCCAG ACTCGAACTT GCCCGTGCAG
CTCCTCACCA TCCGTGTGGC CAGCACCAAC CCTGCTGTGC AGGCCTTTGA CATCTGGCTG AACTCCACTG AGTACGGGGA
GCTCTGCGAG AAGCTCCGGG CACCCATCCC CAGGGCAGCC CATGTGGTCA TCCACCAGAG CCTGGGCGAC CTNTTNNTGG
AGACATTTGC CTCCCTGGTA GAGGTCAACC CGGCCTACTC AGTGCCCAGC AGCCAGGAGC TGGAGGCCTG CATAGGCTTG
CATGCAGACA CGTGCCAACG TGAAGNTGGT GAAGACCTGC CAGGAGTCAG CCACAGGGGA GTTCCAGCAG TNTTAATTNC
CGCCCCATGT TGGTGGCTTA ACTTGATNGG GAAAGTGGNT TNGNCAAGCG GCAAGACCCC CTTGGGNCTT NAAACTTGNT
TGGCAAACGG GGTNCCTGCA TGG

SEQ ID NO:2413: (Length of Sequence = 203 Nucleotides)
TCGTCCTCCC ACCCCCTAGC CATGCAGNGG TGAATNGGGG AACCCAGGNN GGGGGCTGAG AAGCTCCAGG CCACCTTNAG
GGAATCCACG AGGGTCTTTC TACCAGGAAG AAGTGCCGCA GCTGCGTGGC CGCCGAGACC ACGCGGGAGG TGATCTGGTG
GGACAAACGT TCCGTCTGCT CCCGAGTCAG GAGATCGAGT CTC

SEQ ID NO:2414: (Length of Sequence = 92 Nucleotides)
AAGGGGCAGG ATGGGGCTGG GAAGTCCAAC CCCACGCATT TGGGCTCAGC CTTGGACATG GAGGCCTGAC AGCTGTTGTC
CTTTGGGGAT CC

SEQ ID NO:2415: (Length of Sequence = 401 Nucleotides)
CTTTTCCCTT CTGTGGNCCA AATGCANCAT CTTNATACAC GTTGCTTAAC CTAGAANCGT GGCTCCACCG TGAATTCTAA
TTGGTCCGTG CTATCGAGGC ACTGTCCCCT TAACTGGTCT CGCTCCAGTG GCCCCNACTG CTTTTCTTCC TCTTCCAGNA
ATGGCTCTTC GGGCCCAGAG TTCGAATCTC GCGATCGGGA TGGGGACGGA GTACCGGCCT GGGGTGTCCC AGAGCCCGGA
CTGAGCTGGG GAGTCAAGAC CTCGGGCGAT GAGGGCTGAG CAAGTCGGAG TCGTAGGTCC AGTTCTTCCC CAGCTTCTCC
TGTCTCCAAT CTGTTGGGTT CTTGGGGTTC TTCGTCTTCC AGCGGGGTGG AGCTGCTGGT GGAAGAGTCC TCCCGGATC
C

SEQ ID NO:2416: (Length of Sequence = 245 Nucleotides)

493

ATGTAATACA GTGTAGAAAG CGATCATGTC ATAAGCAATG ATTCTGTACA ATCATNCNGC AGAAAATTAG TTTTGGAGAA

TTCTTGGTAA TTGAAGACCA GCAGAGCACC CCTCCCCACC CGCCCCCTAA AAGTGCTTAC AATTTACAGG GATYCTTTTC

TTTTTCAAAG ACCCAAAGAY ACGTGGTCAG AAAAMAAAAG CTTGAAGTCT CAATGCCTAA TGTCGTGCAC ATTKNACAGG

GACGC

<u>SEQ ID NO:2417:</u>   (Length of Sequence = 384 Nucleotides)

GGTTTTGCAA GATGATGGAA CATCCCATAA GCCCAGGTGT GCAGCTAACC TTTAGAAGCT GGAAAAGGCA AGGAAACATA

TTCTGTAGAG CCTCCAGAAG GAACACACGT CTGCACACAC TTTGTTTTTA GCTCAGTGAA ACTGATTTTG GACTACTGAC

CTTCAGAACT GTAAGATAAA TTCCTGTTGT TTTACGTTTG TGGTGTTATA GAAGTTACAG AAATGAATAT ACTTACCGTA

GTTTAGAGAG AGATGGGAGG ATACTTTTTT TTCTCCCTTC TTTTTGAAGG GAGGTAGGTC TCCTTAACTC CAGAGGAAAG

ACTTGTCTTT CTTCATATAG GGGCCCTTTG ATTCTTAATT CATGGGAGTT GTTTAGGAGA TTGA

<u>SEQ ID NO:2418:</u>   (Length of Sequence = 1645 Nucleotides)

GTGATGGCTG CCTTGAGGGG GACCATCATG TCGGAGACCG CATTGGTGCA GGTCTCACCC CACAGCCCAT GCCCAGCCTC

CTGCAGACTC AGGTCATCCA GCTGGTCGAT GGCTCTTTGC ATACCTGGTG CCTTCTCCTC TCGGGCTTGG CAGGCTTCTC

TGGGGGCTTC TCAGATGACT CTTTTGCCTT CTTCTCTGTC TTGGCTAACT CCTTGGCCAG CTCTGAACGT GCCTCCTTGG

CTCCCTCTTC TACCACCTCC TCCCGTTTGG CCAACTTGCT CACGGCCGTC TTGGTAGTGG CTTTGAGGCT CTCCTTGCTA

TCAGCCCGCT GTTTGATTTT GCTGGGCTTG AGGTTGGTAG GCACAGCCCC AGAAGCCAGG NCCTTCTGCG TGGCCACAGG

GTAACGCAGG AAGTCCAGAT GCCGAAGCTT TTCTAGGCCC TCCAAGATCT TGTTTTGGGG AGCATTTCCT GGAAAAAGCA

CACGCACAAT CTTCTCAGTG GGATTGGCTG GTAGCCAGAC CACCAGAGCA GTGATAGAGG TAAGGTAGGG CACGGAGATC

TCAGCCTCCT TCCCATTGGG CAGCACGATG CCTGTNTTGG CTTTACTATT GCCTGCCCAC TTTTGCATGA GGAACTGCAT

CTCCTTGCTG TCCTTGACAG GGTTGAGGAC ATACATGTCC AGCCGGCCCA CACCCATTTT GTXGAAGAGG GTCAGTGGCT

CAATGGTATT GCTGACCACA CGATATAGAG GCTCAGCCTG GATGCCCAGG CGGTTTAAGT GCTXCAGAGT GAGGCAGGCC

TCCTCAATGC TACGCTTGGC TTTCCGGGAG GCATCAGGAA GCCGCAGCTT CTCAGGCACG TTGAAAAAGA CAACTCCAAG

CTCAGGANAG ATAAGGTTCT TCACCCAGTC GCTGTAACTG CTAGAGCCCT GGNACTGCTC CTCCTCTAGC TCTGCCACTT

TGCGCTGCAG TAGTCCATTG ATGCCTGGCA GGTTGTCTGC CCCAATGTGT GTNAGTAGCA CCGAGTCAAT GCGGTCCAAG

TNCCGTACCA GCTTCCAAAA ACAGGACTTG CGATCAGAGC CACCATCCAC CAGGATGTTG AAACCATTGA CAGCAAAGAG

GGCAGAGTCC CCACGACCAC CTGGGAAGAT GTAGCAACAA GGCTTGGAGA GCTTGAGGAA GCCCCCTGAG GTGGGGGGCT

CTAGTAGGTC AAATGGGGAT GGCACGTCCA CAGTCTCAGA GACATACTCG GAGAACTCAG CCACGCCGTC CATGGTGGGC

AGAGTGGGCT CAGGGTTTAG CCGGAGGTGC AGGGTCTCTT GGGAACTGGA TAATCCCAGG TGGCTCCAAT CACCTTCCCC

TAAGCAGGAC ACGGTAAGGA AGGCCTGTAT CCCAGGGTCT CTATTGCTGA GCAATTGGGA AATCTCGGGG TTGTGAAGGA

CCTGGGCAAA GTTTTCATAT GAGTAGGTGC CACTCTGTAG GATGAGGTCT CCCCCAGGCT CTAAACTTTG CCCACTCAAG

ATTAGTAGTT TATAAGCTGA TGAGCTGCTA AGAAGATGAT GAACCTCAGA GCTGATGCTG TCTGCACTGG GATTTACCAG

GATGATGGTC TCTAGGATCT CACTCTGGTG GCAAAGGGTC CTCTG

<u>SEQ ID NO:2419:</u>   (Length of Sequence = 837 Nucleotides)

GGAAGGATGA GAAACAGATT TNTGCTCACT TCATGGGCTG GCCTGGAATT GACGATGGTG CAAACCCAAA TNATCCTGAT

GTAATTNATG AAGATTATGG AACTGCAGCG AATGACATCG GGACACCAC GAACAGAAGT AATGAAATCC CTTCCACAGA

CGTCACTGAT AAAACCGGTC GGGAACATCT CTCGGTCTAT GCTGTGGTGG TGATTGCNCC TGTGGTGGGA TTTTCCCTTT

TGGTAATGCT GTTTCTNCTT AAGTTGGCAA GACTCTCCAR GTTTGGCARG AAAGTTTTG TTTTGTTTCA TAAGATCCCA

CTGGATGGGT AGCTGAAATA AAGGAAAAGA CAGAGAAAGG GGCTGTGGTG CTTGTTGGTT GATGCTGCCA TGTAAGCTGG

ACTCCTGGGA CTGCTGTTGG CTTATCCCGG GAAGTGCTGC TTATCTGGGG TTTNCTGGTA GATGTGGGCG GTGTTTGGAG

GCTGTACTAT ATGAAGCCTG CATATACTGT GAGCTGTGAT TGGGGAACAC CAATGCAGAG GTAACTCTCA GGCAGCTAAG
CAGCACCTCA AGAAAACATG TTAAATTAAT GCTTCTNTTC TTACAGTAGT TCAAATACAA AACTGAAATG AAATCCCATT
GGATTGTACT TCTNTNCTGA AAAGTGTGCT TTTTGACCCT ACTGGACATT TATTGACTTA ATTGCTTCTG TTTATTAAAA
TTGACCTGCA AAGTTAAAAA AAAATTAAAG TTGAGAACAG GTATAAGTGC ACACTGAATA GTCTAATCTA CATGTAACAC
ATATTTNNGT ATGATTTTCT ATACTCTAAT CAGCACT

SEQ ID NO:2420:   (Length of Sequence = 1843 Nucleotides)
GAAGCTCCGG CCCAGGTGGC CGCTGGCTGC TGAGCTCACG CCAAGGTGCG GCTGTGGTGG TGGTGGTGGC GGCTGCAGGC
TTTGCTGCTG CTGGATGTTT GCTGGCTGCA GGTTCTGCTG CTGCATCTGT AAGTTTTGTG GCTGCACCTG CTGGGTCTGC
ACCAGGTGAG GCTGGGTGGC CAGCCGGGTG CTGGGCAGGC CCTGGTAGCT CATCATCTGG ACAGGGCGC TGGCAGCAAG
GCTACTGTGC AGCGGGCCTA CCATGCCATG CTGCAGGGAG GGGGCCTGTG TGCTCAGGGG GCCTGGTGCC ACACTCCCCC
GCAGAGGGTT GTATTGGTTC GGCACCATGC CGCTCTGCAG CCGGGACAGC CACTCGCATT GACCATTCAA ACTGGTGGAC
CCGNCCACAG TGAAATTCAG GGCCCCTCCG CTGCTNGAGC CCAGGACGGT GCTGGTGCCA GAGGCCACAG GCAGGTGGGA
GAGACGAGGT GGGCCAGTNT TAAAGGCCAG CCGGCCGCCC CCACCCANCG CCGCCATYTC GGGCTTGGCC GCCACGTTCA
GGTNCCCNAT GCCCAGGTGG GTGTCGGGCA TYCCAGGCAG GTGGTTGAGG GGCACGGACG GAGACTGCTG GAACGGGGAG
GGCAGNAGTG GCGGCGAGGC CACGTCTGAC AGGTAGCCAT GGGGTGACTC CAGGGAGTCC ACGGGCGAGA GCATGCCGGA
GCTGTCCAGC AGGCAGNCCT TGCCGTCCTG GGACTTCTTC CTCCGTGCCT TGAGGTCCTT GGCCTCCTTG CTTCCACAGG
CCAGGCCTTT GCTGCTGGGC TTGCGGACCT TCTTGCCCTG CACGCCGGGC TTGAGGCTGC CCAGGTAGCC GTTGGGCGAG
CAGAGCGNGG GCGACAGGGT GGGCGTGCCC CCCAGCGGGC TCCGTGCAGC TGCGGGCTGC GCACCAGGTT GTACTCGTCC
AGCAGCCTCA CGATGTCGTG ATGCATGCNC TCCTNTGCGA TGTCGCGCGG CAGGCGGTCC ATATGATCCG TGATGTCCCG
GTTGGCAAAG TGGTCCAGCA GCACCTTGGC GGTCTCGTAG CTGCCCTCCC GGGCGGCCAG AAACAGGGGT GTCTCCTCCC
TGTTGTTCTG CATATCTTTG TTAGCCCCGT TCTTCAGGAG CACAACTGCG GCATCCACAT TGTTCACNGC GGCGGCCCAG
TGCAGGGCGG ACTTGCCCAG GTNATCTACG GCGTTGACGT CGGCGTGTGA GTTGATGAGG TCCTCCAGCA TGCCCTCCAC
GGCCAGGCGG GCAGCCAGGN TCAGTGGCGT CGTGCCATCA TGCATGCGGG CATCCAGGTC TGTGGCTCGG TTCCGGATCA
GGATCTTGGA AGACACCTTG TGCGTCGGCA GACACAGCCG CATGCAGCGG GGTGCGGCCC ATGTTGTCCT GGATGTTGGC
ATCTGCGCTG CCTCCAGCA GGCGCTTGGC GGCATCAGAG CGTGAGTAGC GGGCGGCCAG GTGCAAGGCG GTCTCGCCCG
TNCGGTCTGT CTGGTTGTGC AAGCTGGCGC CCTGGTAGAT GAAGTCGGAG ATGACGGCCG GCGCGTCCTC CTCTTCCTCG
CTGTTGCCCG TCTCCAGGCC GCCCCCGCTG CAGGAGGCGA TCATGAGCGG GGTGAAGCCA TCAGGCCCGC GGACATTGAC
GTCCATGCAG TCGGCGTCAA CCTCACCCTG GGCGGTGTG GGGGCCATGG CANACATGCG CAGGTCAGCG GCATCCAGGT
GCTGCTGAGT CCACTGCCGG TGGTCTGTCT GGTCGTCCAG GTCAGGCAGA ACCACGGGCT CCTCGAACCG GAACTTCTTG
GTC

SEQ ID NO:2421:   (Length of Sequence = 1452 Nucleotides)
CCAGCAACTC AAATTCACCA CCTCGGACTC CTGCGACCGC ATCAAAGACG AATTTCAGCT ACTGCAAGNT CAGTACCACA
GCCTCAAGCT CGANTGTGAC AAGTTGGCCA GTGAGAAGTC AGAGATGCAG CGTCACTATG TGATGTACTA CGAGATGTCC
TACGGCTTGA ACATCGAGAT GCACAAACAG GCTGAGATCG TCAAAAGGCT GAACGGGATT TGTGCCCAGG TCCTGCCCTA
CCTNTCCCAA GAGCACCAGC AGCAGGTCTT GGGAGCCATT GAGAGGGCCA AGCAGGTCAC CGCTCCCGAG CTGAACTCTA
TCATCCGACA GCAGCTCCAA GCCCACCAGC TGTCCCAGCT GCAGGCCCTG GCCCTGCCCT TGACCCCACT ACCCGTGGGG
CTGCAGCCGC CTTCGCTGCC GGCGGTCAGC GCAGGCACCG CTCTCCTCTC GCTGTCCGCG CTTGGGTTCC CAGGCCCACC
TCTCCAAGGA AGACAAGAAC GGGCACGATG GTGACACCCA CCAGGAGGAT GATGGCGAGA GTCGGATTA GCAGGGGGCC
GGGACGGGGA GGTTGGGAGG GGGACAGAG GGGAGACAGA GGCACGGAGA GAAAGGAATG TTTAGCACAA GACACAGCGG
ANTCTGGGAT TGGCTAAACT CCCATAGTAT TTATNGTGGC CGCCGGCGGG GGCCCCAGCC CAGCTTGCAG GCCACCTCTA

495

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GCTTTCTTCC TACCCCATTC CCGGCTTCCC TCCTCCTCCC CTGCAGCCTG GTTAGGTGGA TACCTGCCCT GACGTGTGAG
GCAAGNTAAG GCCTGGAGGG TCAGATGGGG AGACCAGGTC CCAAGGGAGC AAGACCTCGC GANGCARGCA AGCCCCNGCC
CTTCCCCCGT TTTGAACATG TGTAACCGAC AGTCTGCCTG GGCCACAGCC CTCTCACCCT GGTACTGCAT GGACGNAATG
CTAGCTGCCC CTTTCCCGTN CTGGGCACCC CGAGTNTCCC CCGACCCCGG GTCCCAGGTA TGCTCCCACC TCCACCTGCC
CCACTCACCA CCTCTGNTAG TNCCAGACAC CTNCACGYCC ACCTGGTCCT CTNCCATCGC CCACAAAAGG GGGGGCACGA
GGGACGAGCT TAGCTGAGCT GGGAGGAGCA GGGTGAGGGT GGGCGACCCA GGATTCCCCC TCCCCTTCCC AAATAAAGAT
GAGGGTACTA AAGTTGTCTT GGTTTTTATT TTATTATTAT TTTTTTCTTT TTCCAGTATA CTAGCTTGTC TTTTAAGAAA
GGGGATATTA AAAAAAAAAA AAAGACAAAA GTGTTTTTAA AAAAAAGCAA CACCCACACC TGGTGTCTGT ATATAGTCAG
CTTATCTCGT GTTCAATCGT CTGATCTCTA CAGAGAGAAG TGGAAAATGC TGTATCAAGG GTGGGCTTAG CTGTGCCTTT
CCAATAAAGA TG
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496

WHAT IS CLAIMED IS:

1. A purified polynucleotide having a sequence designated as one of:

SEQ ID NO: 316 - 2421, except SEQ ID NOS 650, 1834, and 2073;

or having a sequence complementary thereto.

2. A purified polynucleotide having a sequence designated as one of:

SEQ ID NO: 316 - 2421, except SEQ ID NOS: 485, 650, 1834, 2073, 2092, and 2353;

or complementary sequence thereto or, for those sequences over 150 nucletides long, a portion thereof at least 150 nucleotides in length.

3. An isolated polynucleotide that includes a sequence designated as one of:

SEQ ID NO: 316 - 2421, except SEQ ID NOS: 485, 650, 1834, 2073, 2092, and 2353;

or complementary sequence thereto or, for those sequences over 150 nucleotides long, a portion thereof at least 150 nucleotides in length.

4. An isolated polynucleotide operably coding for a native human polypeptide or protein, which includes a region coding for the same amino acid sequence as a native human coding region corresponding to a sequence designated as one of:

SEQ ID NO: 316 - 2421.

5. The polynucleotide of Claim 4, wherein said SEQ ID NO is listed in Table 6 and is one of SEQ ID NOS: 316-2421.

6. The polynucleotide of Claim 4, wherein said SEQ ID NO is listed in Table 7 and is one of SEQ ID NOS: 316-2421.

7. The polynucleotide of Claim 4, wherein said SEQ ID NO is identified in Table 10 in a metabolic functional grouping and is one of SEQ ID NOS: 316-2421.

497

8.   The polynucleotide of Claim 4, wherein said SEQ ID NO
is identified in Table 10 in a structural functional grouping and
is one of SEQ ID NOS: 316-2421.

9.   The polynucleotide of Claim 4, wherein said SEQ ID NO
is identified in Table 11 in a developmental control grouping and
is one of SEQ ID NOS: 316-2421.

10. An isolated polynucleotide coding for a human protein or
polypeptide, which includes a coding region corresponding to the
EST identified as:

SEQ ID NO: 316 - 2421;

or a polynucleotide complementary thereto.

11.   The polynucleotide of Claim 10, wherein the SEQ ID NO
is 316-1000.

12.   The polynucleotide of Claim 10, wherein the SEQ ID NO
is 1001-1500.

13.   The polynucleotide of Claim 10, wherein the SEQ ID NO
is 1501-2000.

14.   The polynucleotide of Claim 10, wherein the SEQ ID NO.
is 2001-2421.

15.   The polynucleotide of Claim 10, wherein said
polynucleotide further includes the entire sequence designated as
any one of SEQ ID NOS: 316-2421.

16.   An isolated polynucleotide comprising at least 150 bp
of a sequence of Claim 10 and wherein said SEQ ID NO excludes NOS
485, 650, 1834, 2073, 2092, and 2353.

17.   An isolated polynucleotide sequence, which hybridizes
to a sequence designated as any one of SEQ ID NOS 316-2421,
except SEQ ID NOS 485, 650, 1834, 2073, 2092, and 2353, or to a
sequence complementary thereto, under hybridization conditions
sufficiently stringent to require at least 97% base pairing.

18.   A polynucleotide according to any one of Claims 4-17,
in substantially purified form.

19.   A construct in isolated form comprising a vector and
a polynucleotide according to any one of Claims 1-17.

20.   The construct according to Claim 19, further
comprising a promoter operably linked to said polynucleotide.

498

21.   A panel of at least 100 isolated polynucleotides
having the sequences of Claim 3 or Claim 16.

22.   An antisense oligonucleotide capable of blocking
expression of any one of the polynucleotide-encoding sequences of
Claim 10.

23.   A triple helix probe capable of blocking expression of
any one of the polynucleotide-encoding sequences of Claim 10
having at least a 10-base homopurine or homopyrimidine sequence,
said probe comprising single-stranded DNA having at least a 10-
base homopurine or homopyrimidine sequence and being adapted to
bind to the major groove of double stranded DNA which includes
said polynucleotide-encoding sequence.

25.   The polynucleotide of Claim 1, wherein said SEQ ID NO
is 913.

26.   The polynucleotide of Claim 1, wherein said SEQ ID NO
is 1039.

27.   The polynucleotide of Claim 1, wherein said SEQ ID NO
is 1395.

28.   The polynucleotide of Claim 1, wherein said SEQ ID NO
is 1567.

29.   The polynucleotide of Claim 1, wherein said SEQ ID NO
is 1667.

30.   The polynucleotide of Claim 1, wherein said SEQ ID NO
is 1704.

31.   The polynucleotide of Claim 1, wherein said SEQ ID NO
is 2089.

32.   The polynucleotide of Claim 1, wherein said SEQ ID NO
is 2297.

33.   The polynucleotide of Claim 1, wherein said SEQ ID NO
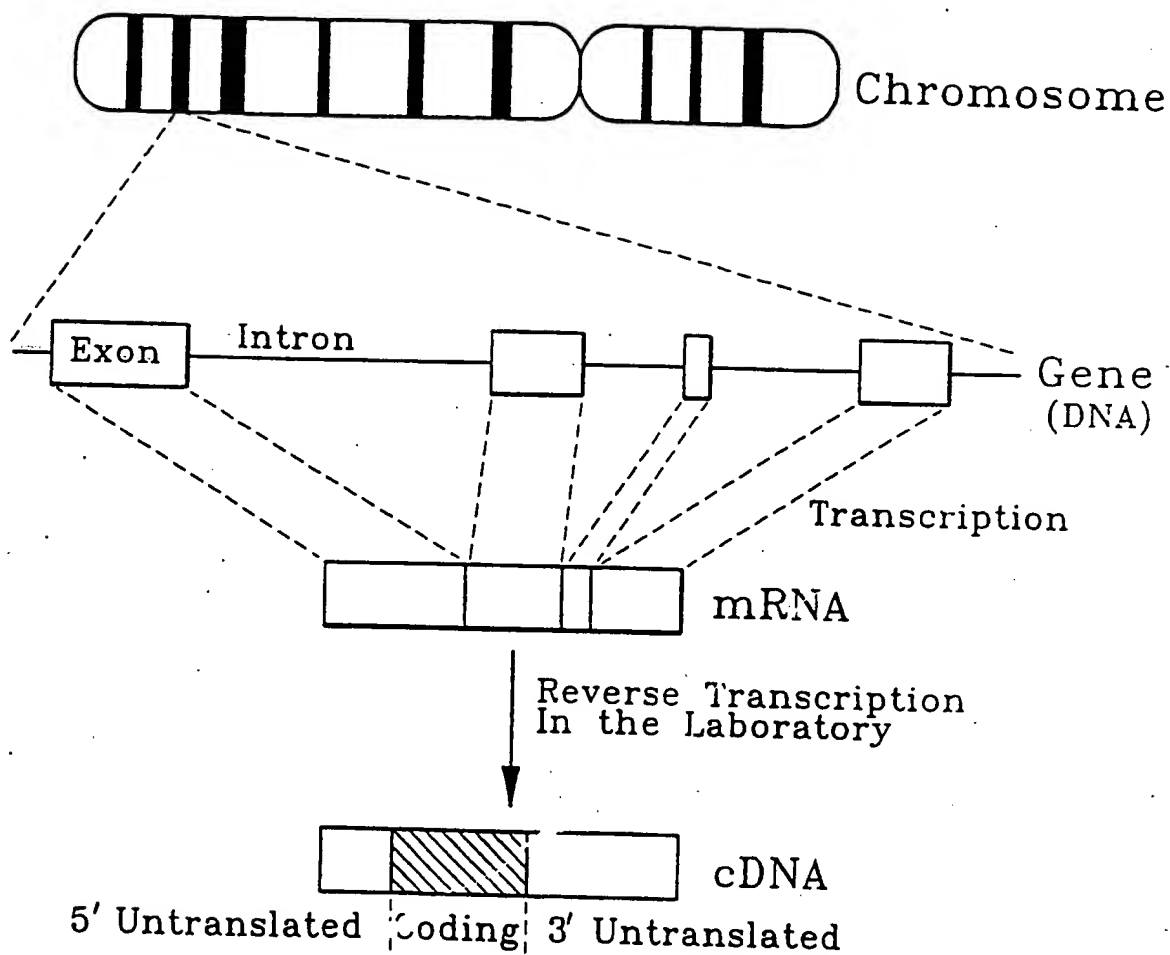is 2302.

5' Untranslated Coding 3' Untranslated

FIG. 1